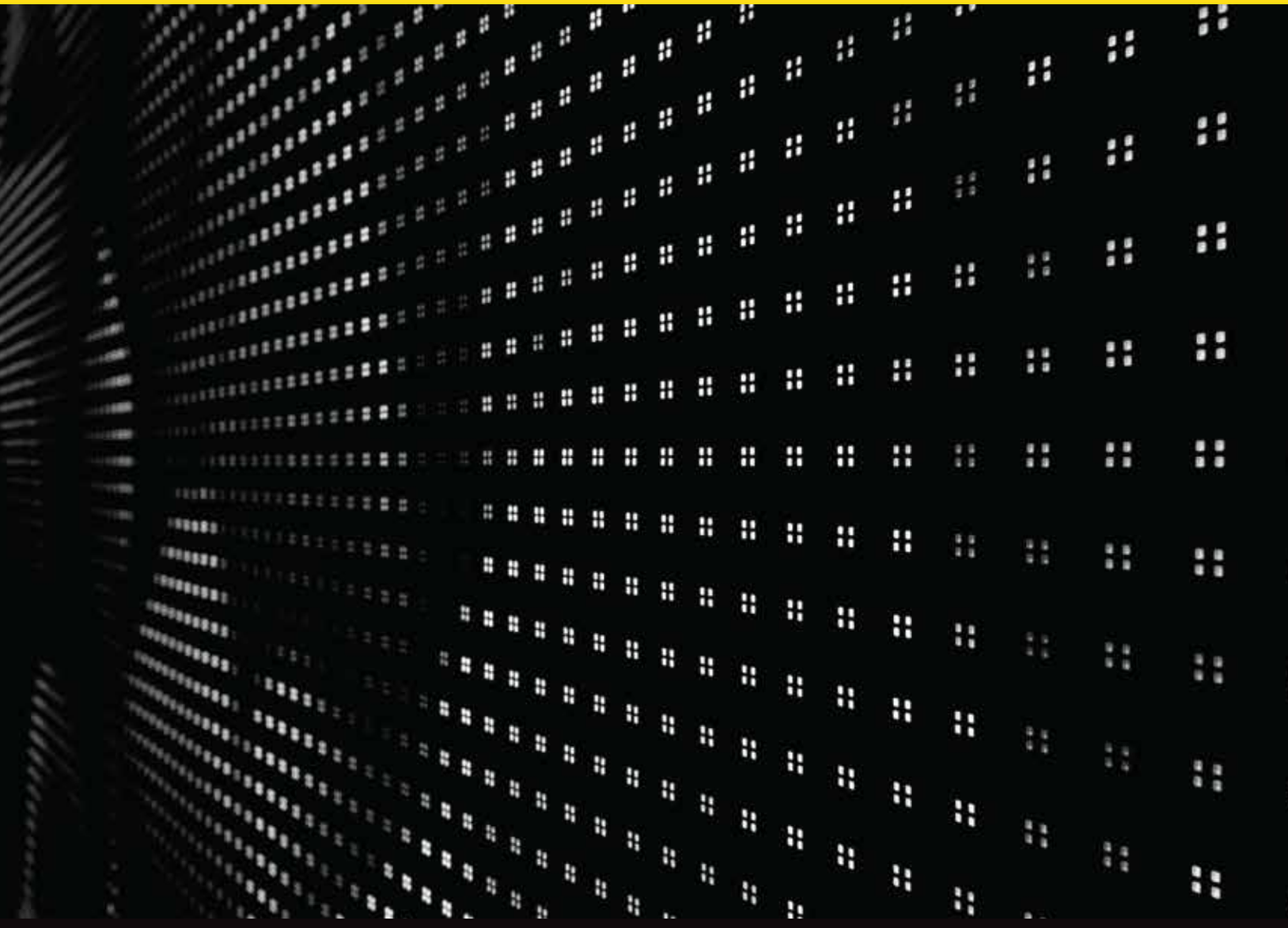
Lighting Group

Components – APAC

Lighting Selector Guide 2014 照明方案手册



Five Years Out

arrow.com

0 1 2 3 4 5 6 7 8
x1000 r/min
0 20 40 60 80 100 120 140 160 180
km/h
P R N D S
E
FUEL GAUGE

Arrow Asia-Pacific Lighting Linecard
艾睿照明产品线

HB/HP LED
Avago Technologies 安华高科技
Cree 科锐
Everlight 亿光电子
Liteon LED
OSRAM 欧司朗
Samsung LED

Lens / Optics
Carclo
Fraen
Khatod
Intematix
LEDil
LedLink 雷笛克光学

LED Driver Controller
Cypress Semiconductor 赛普拉斯
Diodes 达拉斯
Fairchild Semiconductor 飞兆半导体
Infineon Technologies 英飞凌科技
International Rectifier 国际整流器
ISSI
Linear Technology 凌力尔特
Micrel 麦瑞
NXP Semiconductors 恩智浦半导体
ON Semiconductor 安森美半导体
Richtek 立锜科技
STMicroelectronics 意法半导体
Texas Instruments 德州仪器

LED Driver Module
AD Power 无锡安特源
Artesyn 雅特生科技
MOONS' 鸣志
RECOM
SELF 赛尔富
Seventeam 七盟
Shinry 欣锐特

Microcontroller
Atmel 爱特梅尔
Cypress Semiconductor 赛普拉斯
Freescale Semiconductor 飞思卡尔半导体
Greenwave
NXP Semiconductors 恩智浦半导体
Renesas 瑞萨电子
Silicon Labs
Texas Instruments 德州仪器

Heat Sink
HELF
HENJIE
TT Electronics (IRC)

Passive Components
Bourns 柏恩
Littelfuse
Molex 莫仕
Rayben 乐健
TE Connectivity 泰连电子
YOUNGSUN

Miscellaneous
FR4 with Metalbase
MCPCB 铝基板
PCB 线路板

Arrow Lighting Designer 艾睿照明设计工具

Arrow Lighting Designer is a sophisticated cloud-based application platform to design complete LED lighting system solutions in minutes.

艾睿照明设计工具是一个精密的云端应用平台，可在极短时间内完成整个LED照明系统的设计解决方案。

http://arrow.transim.com/lightingv4/Landing

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Cree — Lighting Class High Power White LED
科銳 — 照明級高功率 LED

Supplier 供应商

CREE

Description

This is specially designed for promoting HP-LEDs. Cree is Arrow Asia's focus LED line for the brightest white colour HP-LEDs when driving @350mA or higher. The high power LED series from Cree include XML, industry's highest performance with single die, XTE/XBD/XQE/XPG/XPE LEDs, lighting class MX and ML series and multiple chip LED MKR, MCE, MPL and MTG LED and CXA series (COB arrays).

描述

以下内容是为推广高功率LED所设。Cree大功率白光LED是艾睿亚洲重点推广的一条照明产品线，包含有业界单晶片光效最好的XML、 XTE / XBD / XQE / XPG / XPE，还有多芯片的MX、ML 系列及MKR、MCE、MPL、MTG及COB阵列。

Features 特性

- Industrial leading luminous flux and efficiency
  产业界领先的亮度和光效
- Full portfolio of color & white LEDs
  全系列颜色及白光LED
- ANSI-compatible chromaticity bins
  兼容ANSI标准的色温分档
- Low thermal resistance & high max junction temperature
  极低热阻，极高工作节温
- Uniform and small dimension
  统一及小尺寸光源
- Low forward voltage
  低正向压降
- Symmetric design: matching optical & mechanical centers
  完全对称的封装设计
- Electrically neutral thermal path
  热电分离
- L70 lifetime up to 50,000 hours
  5万小时的L70寿命

Benefits 优点

- Enable low total system cost through low power and heat requirements
  低功率和热的要求能减少系统成本
- Allow XLamp LEDs to replace conventional lighting
  可替换传统的照明光源
- Can be tailored towards specific applications
  可满足某些特定应用
- Good uniformity across end products
  产品一致性好
- Low inventory of LEDs for matching
  可低库存运作
- Ease of thermal design and secondary
  簡易光学和導热设计
- Low power consumption
  更低的功率损耗
- Extended battery life in portable lighting
  可延长电池寿命
- Enhance ruggedness & reliability of LED in all environments
  在各种环境中具有高可靠度

Applications 应用

- Outdoor lighting : parking area, roadway, pedestrian
  室外照明 : 停车场、道路、人行道
- Industrial lighting
  工业照明
- Indoor lighting : downlights, accent lights
  室内照明
- Retail display lighting : display case, refrigerated display
  零售橱柜展示照明
- Architectural and landscape lighting
  景观照明
- Portable and personal lighting
  便携/个人照明
- Emergency-vehicle lighting
  应急照明
- Dental and medical
  牙齿固化和医学照明

Part No. 产品编号	CXA1304	CXA15xx	CXA18xx	CXA25xx	CXA30xx	CXA3590	CXA1310 @HD	CXA1520 @HD	CXA1850 @HD	CXA2590 @HD	XP-G2	XP-E2	XH-B	XH-G
Thermal Resistance 热阻	NA	2.5°C/W@1507 2.1°C/W@1512	NA	NA	NA	NA	NA	NA	NA	NA	4°C/W	9°C/W	45°C/W	20°C/W
Max Driving Current 最大驱动电流	1000mA@9V 250mA@37V	375mA@1507 600mA@1512	900mA@1816 1050mA@1820 1400mA@1830	1250mA@2520 1500mA@2530 2100mA@2540	2500mA@3050 2800mA@3070	1800mA	900mA@18V 450mA@36V	900mA	1750mA	1800mA	1500mA	1000mA	175mA	350mA
Viewing Angle 角度	115°	115°	115°	115°	115°	115°	115°	115°	115°	115°	115°	110°	130°	130°
Typ. Vf 典型正向电压	9.3V@400mA & 85°C 37V@100mA & 85°C	37V@1507 38V@1512	37V	36V@ 2520 37V@2530 37V@2540	37V@3050 38.5@3070	77V	18V@700mA 36V@350mA	35V	35V	70V	2.8V@350 mA & 85°C	2.9V@350 mA & 85°C	3.1V@65mA & 85°C	2.9V@65mA & 85°C
Product Picture 产品图														
Dimension 尺寸:	13.35 x 13.35	15.85 x 15.85	17.85 x 17.85	23.85 x 23.85	27.35 x 27.35	34.85 x 34.85	13.35 x 13.35	15.85 x 15.85	17.85 x 17.85	23.85 x 23.85	3.45 x 3.45	3.45 x 3.45	3.0 x 3.0	3.0 x 3.0

Part No. 产品编号	XB-H	XB-D	XB-E HVW	XB-G HVW	XQ-B	XQ-D	XQ-E	XM-L2	XML-EZW (6V,12V)	XML-HVW	MK-R	MK-R2	MT-G	MT-G2 *
Thermal Resistance 热阻	4°C/W	6.5 °C/W	6.5 °C/W	5.5 °C/W	17°C/W	7.5°C/W	6°C/W	2.5°C/W	2.5°C/W	3.5°C/W	1.7°C/W	1.7°C/W	1.5°C/W	1.5°C/W
Max Driving Current 最大驱动电流	1500mA	1000mA	125mA	200mA	300mA	700mA	1000mA	3000mA	2A (6V) or 1A (12V)	125mA	2500mA/ 1250mA	420mA	4000mA/ 700mA	4000mA
Viewing Angle 角度	110°	115°	135°	140°	140°	145°	115°	125°	115°	110°	120°	120°	115°	115°
Typ. Vf 典型正向电压	2.9V@ 700mA & 85°C	2.9V@ 350mA & 85°C	23V@ 44 mA & 85°C	22.5V@ 44 mA & 85°C	3.0V@ 80 mA & 25°C	3.0V@ 350mA & 25°C	2.9V@ 350 mA & 85°C	2.85V@ 700 mA & 85°C	5.8V@ 0.7A(6V) or 11.6V@ 0.35A(12) & 85°C	46V@ 44mA & 85°C	5.85V@ 1400mA &85°C/ 11.7V@ 700mA &85°C	36V@ 233mA & 85°C	5.6V@ 1100mA & 85°C/ 33.5V@ 185mA & 85°C	5.6V@ 1100mA & 85°C
Product Picture 产品图														
Dimension 尺寸:	2.45 x 2.45	2.45 x 2.45	2.45 x 2.45	2.45 x 2.45	1.6 x 1.6	1.6 x 1.6	1.6 x 1.6	5.0 x 5.0	5.0 x 5.0	5.0 x 5.0	7.0 x 7.0	7.0 x 7.0	8.9 x 8.9	8.9 x 8.9

* MTG2 also have other voltage option, pls. refer to datasheet for detials.

Cree — High Power Lighting Class Discretes LED —
科銳 — 照明級高功率分离LED器件 —
XML/XTE/XBD/XPE/XPG/XQE/XHG/ML & XTE/XML/XBG HV LED

Supplier 供应商

Description

Based on Cree's SC³ technology platform, XBD, XTE and updated XM-L2, XP-E2, XP-G2 bring high performance and quality of light to a wide range of lighting applications, including remote phosphor, color-changing, portable and personal, outdoor, indoor directional, transportation, stage and studio, commercial and emergency-vehicle lighting.

描述

基于科锐最新的碳化硅技术、XBD、XTE及升级版的XM-L2，XP-E2、XP-G2在大量的通用照明应用市场，像远程荧光粉技术、颜色变换、手持及户外、户内定向照明、交通、舞台、商业及紧急照明等领域为客户带来更高的品质和光输出。

Features 特性

- High light intensity output 极高的光输出
- Small package size 小尺寸
- ANSI-compatible chromaticity bins 兼容ANSI标准的色温分档
- Electrically neutral thermal path 热电分离
- Low thermal resistance 低热阻

Benefits 优点

- High light intensity output 高光强输出
- Small size for small form factor 小尺寸
- Low power consumption 低功率损耗
- Increased energy saving & efficiency 高效节能
- Fits various application 适合各种应用
- Ease of thermal and optic design 簡易光学和导热设计

Applications 应用

- High-bay Lighting 工矿灯
- High end portable 高端便携应用
- Light bar 灯条
- Outdoor lighting such as Street light 路灯
- Indoor Retofit 室内照明升级改造
- Area lighting 泛燈

Cool White 冷白

Part No. 产品编号	XMLBWT-00-0000-0000U2051	XPGBWT-L1-0000-00H51	XTEAWT-00-0000-000000H51	XPEBWT-L1-0000-00F51	XBHAWT-00-0000-000LT50E1	XBDAWT-00-0000-000000F51	XQEAWT-00-0000-00000LEE1	XQDAWT-00-0000-000000G51	XHGAWT-00-0000-00000LX51	MLEAWT-A1-0000-000451	XMLHVW-Q0-0000-0000LT551	XTEHVW-Q0-0000-00000LH51
Technical Performance (lm) 技術参数 (流明)	min. 300@ 700mA & 85°C, Full BINs	min. 139 @ 350mA & 85°C, Full BINs	min. 139 @ 350mA & 85°C, Full BINs	min. 122 @ 350mA & 85°C, Full BINs	min. 260 @ 700mA & 85°C, Full BINs	min. 122 @ 350mA & 85°C, Full BINs	min. 114 @ 350mA & 85°C, Full BINs	min. 130 @ 350mA & 25°C, Full BINs	min. 26.8 @ 65mA & 25°C, Full BINs	min. 51.7 @ 150mA & 25°C, Full BINs	min.260 @ 44mA & 85°C, Full BINs	min.139 @ 22mA & 85°C, Full BINs
Type 种类	XM-L2	XP-G2	XT-E	XP-E2	XB-H	XB-D	XQ-E	XQ-D	XH-G	ML-E	XM-L HV	XT-E HV
Colour 颜色	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White
Colour Temp. (K) 色温	5000-8300	5000-8300	5000-8300	5000-10000	5000-8300	5000-8300	5000-8301	5000-8300	5000-8300	5000-8300	5000-8300	5000-8300
Current (mA) 驱动电流	350-3000	350-1500	350-1500	350-1000	350-1500	350-1000	350-1000	350-700	65-350	150-500	44-125	22-66
Viewing Angle 角度	125°	115°	115°	110°	110°	115°	110°	145°	130°	120°	110°	115°
Luminous Flux (lm) 光通量	300+	139+	139+	122+	260+	122+	114+	130+	26.8+	51.7+	260+	139+

Neutral White 中性白

Part No. 产品编号	XMLBWT-00-0000-000LT50E4	XPGBWT-01-0000-00GC2	XTEAWT-00-0000-000000GF4	XPEBWT-01-0000-00FC2	XBHAWT-00-0000-0000T50E4	XBDAWT-00-0000-00000LEE4	XQEAWT-00-0000-00000LEE4	XQDAWT-00-0000-00000LEE4	XHGAWT-00-0000-00000LXE5	XMLHVW-Q0-0000-0000LT4E5	XTEHVW-Q0-0000-00000LEE5
Technical Performance (lm) 技術参数 (流明)	min. 260 @ 700mA & 85°C, ANSI BINs	min. 130 @ 350mA & 85°C, ANSI BINs	min. 130 @ 350mA & 85°C, ANSI BINs	min. 122 @ 350mA & 85°C, Full BINs	min. 260 @ 700mA & 85°C, ANSI BINs	min. 114 @ 350mA & 25°C, ANSI BINs	min. 114 @ 350mA & 25°C, ANSI BINs	min. 114 @ 350mA & 25°C, ANSI BINs	min. 26.8 @ 65mA & 25°C, Full BINs	min.240@ 44mA & 85°C, ANSI BINs	min.122@ 22mA & 85°C, ANSI BINs
Type 种类	XM-L2	XP-G2	XT-E	XP-E2	XB-H	XB-D	XQ-E	XQ-D	XH-G	XM-L HV	XT-E HV
Colour 颜色	Neutral White	Outdoor White	Neutral White	Outdoor White	Neutral White	Neutral White	Neutral White	Neutral White	Neutral White	Neutral White	Neutral White
Colour Temp. (K) 色温	3700-5000	3200-5300	3700-5000	4000-5300	3700-5300	3700-5000	3700-5300	3700-5000	3700-5000	3700-5000	3700-5000
Current (mA) 驱动电流	350-3000	350-1500	350-1500	350-1000	350-1500	350-1000	350-1000	350-700	65-350	44-125	22-66
Viewing Angle 角度	125°	115°	115°	115°	110°	115°	110°	145°	130°	110°	115°
Luminous Flux (lm) 光通量	260+	130+	130+	122+	260+	114+	114+	114+	26.8+	240+	114+

Warm White 暖白

Part No. 产品编号	XMLBWT-00-0000-000LT30E7	XPGBWT-L1-0000-00GE7	XTEAWT-00-0000-00000LDE7	XPEBWT-L1-0000-00CE7	XBHAWT-00-0000-0000T40E7*	XBDAWT-00-0000-00000LCE7	XQEAWT-00-0000-00000LCE7	XQDAWT-00-0000-00000LCE7	XHGAWT-00-0000-00000LXE7	MLEAWT-A1-0000-0003E5	XBGHVW-H0-0000-00000HDE7	XMLHVW-Q0-0000-0000LT3E7	XTEHVW-Q0-0000-00000LDE7
Technical Performance (lm) 技術参数 (流明)	min. 220 @ 700mA & 85°C, ANSI BINs	min. 130@ 350mA & 85°C, ANSI BINs	min. 107 @ 350mA & 85°C, ANSI BINs	min. 100 @ 350mA & 85°C, ANSI BINs	min. 240 @ 700mA & 85°C, ANSI BINs	min. 100 @ 350mA & 85°C, ANSI BINs	min. 100 @ 350mA & 25°C, ANSI BINs	min. 100 @ 350mA & 25°C, ANSI BINs	min. 26.8 @ 65mA & 25°C, Full BINs	min. 45.7 @ 150mA & 25°C, ANSI BINs	min. 107@ 44mA & 85°C, ANSI BINs	min.220@ 44mA & 85°C, ANSI BINs	min.107@ 22mA & 85°C, ANSI BINs
Type 种类	XM-L2	XP-G2	XT-E	XP-E2	XB-H	XB-D	XQ-E	XQ-D	XH-G	ML-E	XB-G HV	XM-L HV	XT-E HV
Colour 颜色	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White	Warm White
Colour Temp. (K) 色温	2600-3700	2600-3700	2200-3700	2600-3700	2600-3700	2600-3700	2700-3500	2600-3700	2600-3700	2800-3200 3700-4300	2700-3000	2600-3700	2600-3700
Current (mA) 驱动电流	350-3000	350-1500	350-1500	350-1000	350-1500	350-1000	350-1000	350-700	65-350	150-500	44-200	44-125	22-66
Viewing Angle 角度	125°	115°	115°	115°	110°	115°	110°	145°	130°	120°	140°	110°	115°
Luminous Flux (lm) 光通量	220+	130+	107+	100+	240+	100+	100+	100+	26.8+	45.7+	107+	220+	107+

* NOTE : CREE could provide LED based on ANSI and different CRI grade. XB-H warm white CRI 80+, 85+, 90+. Details pls. contact with Arrow Asia lighting sales.
*注 : CREE可以按ANSI BIN区和不同CRI指标等级的要求提供以上平台的LED产品。XB-H暖白可以提供显指大于80、85、90的产品。具体事项请和艾睿亚洲的照明销售代表联系。

Cree — Lighting Class CXA LED Integrated Arrays
科锐 — 照明级 CXA LED 集成阵列

Supplier 供应商

Description

The Cree CXA arrays bring lighting-class reliability and performance to easy-to-use LED COB arrays. CXA COB arrays expand Cree's lighting-class leadership to multi-die, high flux arrays. With XLamp lighting-class reliability, a wide viewing angle, uniform light output, CXA family continues Cree's history of segment-focused product innovation in LEDs for lighting application.

描述

Cree CXA LED是具有照明级可靠性和性能的多晶片封装，高流明输出阵列。便于应用，并带给用户Xlamp的照明级高可靠性，宽视角，均匀的光输出和业界领先的色温分BIN技术。

Features 特性

- Cost & performance optimized solutions for ALL lighting applications
  性价比高适于不同的照明应用
- 4-step & 2-step ANSI bins 4步和2步ANSI BIN
- Available in 70-, 80-, 90- and 93- CRI options
  CRI70-、80-、90-、93-可选
- 115° viewing angle
  视场角115°
- Top-side solder connections
  顶部焊盘连接
- Thermocouple attach point 测温点
- Compliant with defined Zhaga standard LES sizes
  符合Zhaga LES尺寸标准

Benefits 优点

- High light intensity output 高光强输出
- One light source 单一光源
- Easy assembly 易于安装
- No multiple shadow 无重影
- Unlimited floor life at ≤30°C / 85% RH
  在30°C / 85% RH的环境下车间寿命不受限制
- Good LED-to-LED color consistency
  色温一致性好
- Large solder pads 大焊盘

Applications 应用

- Light bulbs 灯泡
- Downlighting 筒灯
- Indoor/residential lighting 室内/住宅照明
- Recessed fixtures lighting 橱柜照明
- Area lighting 泛光灯
- Low bay/High bay lamp 工棚灯

Part Number 产品编号		CXA1304 (9V)	CXA1304 (18V)	CXA1304 (37V)	CXA1507	CXA1512	CXA1816	CXA1820	CXA1830	CXA2520	CXA2530	CXA2540	CXA3050	CXA3070	CXA3590
LES发光面尺寸(mm)		6			9		12		14	19	19	19	23	23	30
Dimension 尺寸(mm):		13.35 x 13.35			15.85 x 15.85		17.85 x17.85			23.85 x 23.85			27.35 x 27.35		34.85 x 34.85
Typical 典型	Current(mA)	400	200	100	200	350	450	550	800	550	800	1100	1400	1925	1230
	Vf@85°C(V)	9.3	18	37	37	37	37	37	37	36	37	37	37	38.5	77
	Power(W)	3.7			7.4	12	16	20	30	20	30	40	52	74	95
Maximum 最大	Current(mA)	1000	500	25	375	600	900	1050	1400	1250	1500	2100	2500	2800	1800
	Power(W)		11		15	24	37	43	57	50	62	86	100	117	150
Typical Luminous Flux (lm) @85°C(3000K, CRI80) 典型光通量		380			780	1380	1710	2260	3200	2260	3200	4545	5590	7945	10000
Typical Luminous Flux (lm) @85°C(5000K, CRI80) 典型光通量		440			840	1485	1965	2420	3440	2420	3440	4860	6010	8500	11000

* NOTE : in above table just list CXA some main parameters, for detailed information, pls. contact with Arrow Asia lighting sales.
* 注：上表只是列出了CXA 系列产品的主要参数特性，具体的参数信息，请和艾睿亚洲的照明销售代表联系。

Cree — XLamp CXA High Density
科锐 — 照明级 CXA LED 高密度集成列阵

Supplier 供应商

Features 特性

- Cost & performance optimized solutions for ALL lighting applications
  性价比高适于不同的照明应用
- 4-step & 2-step ANSI bins 4步和2步ANSI BIN
- Available in 70-, 80-, 90- and 93- CRI options
  CRI70-、80-、90-、93-可选
- 115° viewing angle 视场角115°
- Top-side solder connections 顶部焊盘连接
- CCT from 2700K~6500K 色温从2700K~6500K
- NEMA SSL-3 2011 standard flux bins
  NEMA SSL-3 2011 标准光通量BIN

Benefits 优点

- Smaller LES, more high light intensity output
  更小的发光面，更高光强输出
- One light source 单一光源
- Easy assembly 易于安装
- No multiple shadow 无重影
- Unlimited floor life at ≤30°C / 85% RH
  在30°C / 85% RH 的环境下车间寿命不受限制
- Good LED-to-LED color consistency 色温一致性好
- Higher CBCP & tighter beam angles
  小角度，中心光强高

Applications 应用

- High-Output track (Spot) 高光射灯
- Directional lamps (Replacement Lamps : PAR, AR)
  定向灯 (替换传统PAR、AR灯)
- Indoor/residential lighting 室内/住宅照明
- Recessed fixtures lighting 橱柜照明
- Stage spotlight 舞台射灯
- Retail lighting 零售照明

Part Number 产品编号		CXA1310 (18V)	CXA1310 (36V)	CXA1520	CXA1850	CXA2590
LES发光面尺寸(mm)		6		9	12	19
Dimension 尺寸(mm):		13.35 x 13.35		15.85 x 15.85	17.85 x 17.85	23.85 x 23.85
Typical 典型	Current(mA)	700	350	500	1400	1200
	Vf@85°C(V)	18	36	35	35	70
	Power(W)	12.6		17.5	42	84
Maximum 最大	Current(mA)	900	450	900	1750	1800
	Power(W)	17		33	61	128
Typical Luminous Flux (lm) @85°C(3000K, CRI80) 典型光通量		1120	1120	1710	4860	7945
Typical Luminous Flux (lm) @85°C(5000K, CRI80) 典型光通量		1200	1200	1965	5225	9000

Cree — Lighting Class MK-R, XM-L, MT-G EasyWhite Arrays
科锐 — 照明级 MK-R、XM-L、MT-G EasyWhite 阵列

Supplier 供应商

Description

MK-R, XM-L, MT-G, LED maximizes lumen density, eliminates chromaticity binning, and enables luminaire and bulb manufacturers to deliver consistent color and high efficacy light output in a new, compact, multi-die package. Reduce LED-to-LED color variation to within a 2-step MacAdam ellipse, 94% smaller than the total area of the corresponding ANSI C78.377 color region.

描述

MK-R、XM-L、MT-G、 LED 系列突破了传统的分档标准，提高了流明密度，在一个崭新紧凑的多晶片封装上为灯具制造商实现了颜色一致和高效的光输出。将LED和LED之间的色温变化区域减小到2步麦克亚当椭圆之内，比相应的 ANSI C78.377 所规定的区域小了94%。

Features 特性

- Cree EasyWhite color temperatures
  EasyWhite色温技术
- High lumen density 高流明密度
- Electrically neutral thermal path 热电分离
- 85°C binning 在85°C结温下分BIN
- Built on Cree's SC3 Technology Platform
  基于Cree第三代碳化硅技术

Benefits 优点

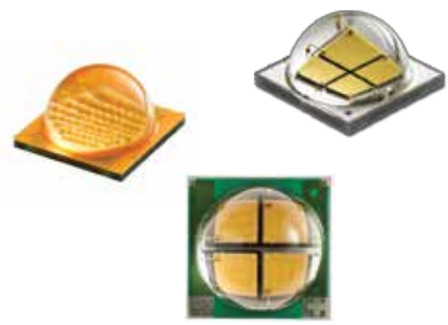
- Single Point-Source of Light 单点光源
- Up to 88% smaller optical source than COB arrays
  光源部分小于COB封装的88%
- Color consistency 色温一致性
- Reduces LED system complexity 减小系统的复杂性
- Wide variety of CRI choices : standard CRI as well as 80-, 85-, 90-
  多种CRI指数可供选择 : 基本CRI及最低CRI 80-、85-、90-

Applications 应用

- MR, PAR and retrofit bulbs
  传统灯具的升级改造替换
- Commercial/residential directional lighting
  商照，家居照明
- General indoor/outdoor illumination
  通用室内外照明
- Directional lighting 定向灯

	MK-R EasyWhite (6V, 4-step, CRI80)*					XM-L EasyWhite (6V,4-step,CRI80)**					MT-G EasyWhite (36V,4-step,std CCT)***				
Part No. 产品编号	MKRAWT-00-0000-0D0HG227F	MKRAWT-00-0000-0D0HG430F	MKRAWT-00-0000-0D0HH235F	MKRAWT-00-0000-0D0HG445F	MKRAWT-00-0000-0D0HH250F	XMLEZW-00-0000-0B0HU227F	XMLEZW-00-0000-0B0HU330F	XMLEZW-00-0000-0B0HU335F	XMLEZW-00-0000-0B0HU440F	XMLEZW-00-0000-0B00V250F	MTGEZW-00-0000-0N00G027F	MTGEZW-00-0000-0N00H030F	MTGEZW-00-0000-0N00H035F	MTGEZW-00-0000-0N00J040F	MTGEZW-00-0000-0N00K050F
Technical Performance (lm) 技术参数 (流明)	min. 780 @ 700mA & 85°C	min. 840 @ 700mA & 85°C	min. 900 @ 700mA & 85°C	min. 900 @ 700mA & 85°C	min. 900 @ 700mA & 85°C	min. 300 @ 700mA & 85°C	min. 320 @ 700mA & 85°C	min. 320 @ 700mA & 85°C	min. 340 @ 700mA & 85°C	min. 400 @ 700mA & 85°C	min. 520 @ 185mA & 85°C	min. 560 @ 185mA & 85°C	min. 560 @ 185mA & 85°C	min. 600 @ 185mA & 85°C	min. 650 @ 185mA & 85°C
Colour Temp.(K) 色温	2700	3000	3500	4000	5000	2700	3000	3500	4000	5000 (std.CRI)	2700	3000	3500	4000	5000

	MK-R2 (36V,CRI80) 2-step		MK-R2 (36V,CRI80) 4-step		MT-G2 EasyWhite (6V,4-step)***				
Part No. 产品编号	MKRBWT-00-0000-0N0HG227H	MKRBWT-00-0000-0N0HG430H	MKRBWT-00-0000-0N0HG227F	MKRBWT-00-0000-0N0HG430F	MTGBEZ-00-0000-0B00K027F	MTGBEZ-00-0000-0B00M030F	MTGBEZ-00-0000-0B00N035F	MTGBEZ-00-0000-0B00N040F	MTGBEZ-00-0000-0B00P050F
Technical Performance (lm) 技术参数 (流明)	min. 780 @ 700mA & 85°C	min. 840 @ 233mA & 85°C	min. 780 @ 233mA & 85°C	min. 840 @ 233mA & 85°C	min. 650 @ 1100mA & 85°C	min. 700 @ 1100mA & 85°C	min. 750 @ 1100mA & 85°C	min. 750 @ 1100mA & 85°C	min. 800 @ 1100mA & 85°C
Colour Temp.(K) 色温	2700	3000	2700	3000	2700	3000	3500	4000	5000



*NOTE : Just MKR 4-step CRI80 products listed in this table, for 2-step, cool white and other CRI products needed, pls. contact with Arrow Asia lighting sales.
*注：该表中只是列出了MKR 4步、CRI80的产品、有2步、冷白产品及不同CRI需求的请和艾睿亚洲的照明销售代表联系。
**NOTE : Just 6V, 4-step, CRI80 XML EasyWhite listed, for other voltage and CRI, 2-step XML EasyWhite pls. contact with Arrow Asia lighting sales.
**注：该表中只是列出了XML EasyWhite 6V、4步、CRI80的产品、有12V电压，2步及不同CRI需求的请和艾睿亚洲的照明销售代表联系。
***NOTE : Just 6V, 4-step, standard CRI MT-G2 listed, for other voltage and CRI, 2-step MT-G2 pls. contact with Arrow Asia lighting sales.
*** 注：该表中只是列出了MT-G2 6V、4步的产品、有9V、36V电压，2步及不同CRI需求的请和艾睿亚洲的照明销售代表联系。

Cree XLamp Color LEDs — Discretes (Non-Direc.) ML-E, XQ-E
科锐 XLamp 颜色 LED — 分离器件 (非指向性) ML-E、XQ-E

Supplier 供应商

Features 特性

- ML-E Available in royal blue, blue, green, amber and red
  ML-E系列提供品蓝、蓝、绿、黄及红色选择
- Uniform light over wide angles 宽角度均匀光分布
- Electrically neutral thermal path 热电分离
- Remote Phosphor 不同亮度需求的远程荧光粉技术

Applications 应用

- Architectural color-changing 景观照明及色彩变幻
- Entertainment stage & studio 舞台灯光
- Transportation 交通指示
- Remote Phosphor 远程荧光粉应用

	ML-E color					XQ-E color		
Part No. 产品编号	MLEROY-A1-0000-000501	MLEBLU-A1-0000-000U01	MLEGRN-A1-0000-000101	MLEAMB-A1-0000-000001	MLERED-A1-0000-000W01	XQEBLU-00-0000-000000201	XQEGRN-00-0000-000000E01	XQERED-00-0000-000000801
Colour 颜色	Royal Blue 品蓝	Blue 蓝	Green 绿	Amber 黄	Red 红	Blue 蓝	Green 绿	Red 红
DWL 主波长范围(nm)	450-465	465-485	520-535	585-595	620-630	465-485	520-535	620-630
Viewing Angle 视场角	125°	125°	125°	125°	125°	125°	125°	130°
Thermal Resistance 热阻(°C/W)	11	11	15	24	15	6	9	5
Max Current (mA)	350	350	350	250	350	1000	1000	1000
Typical Vf (V)	3.2 @ 150 mA	3.2 @ 150 mA	3.45 @ 150 mA	2.4 @ 150 mA	2.2 @ 150 mA	3.1@ 350 mA	3.2 @ 350 mA	2.2 @ 350 mA&85°C
Technical Performance (lm) 技术参数 (流明)	min. 175mW @ 150 mA & Tj=25°C	min. 13.9lm @ 150 mA & Tj=25°C	min. 35.2lm @ 150 mA & Tj=25°C	min. 30.6lm @ 150 mA & Tj=25°C	min.23.5lm @ 150 mA & Tj=25°C	min.39.8lm @ 350 mA & Tj=25°C	min. 114lm@ 350 mA & Tj=25°C	min.73.9lm@ 350mA & Tj=85°C

Cree XLamp Color LEDs — Discretes (Directional) XP-E2 & XP-E, XB-D
科锐 XLamp 颜色 LED — 分离器件 (指向性) XP-E2 & XP-E、XB-D

Supplier 供应商

Features 特性
- Electrically neutral thermal path
  热电隔离
- High maximum LED junction temperature: 150°C
- Unlimited floor life at ≤30°C / 85% RH
- Reflow solderable JEDEC J-STD-020C compatible
- RoHS and REACH-compliant
  通过RoHS和REACH认证
- UL-recognized component
  通过UL认证

Benefits 优点
- Optical control – put light where it is needed
  配合不同角度透镜的应用
- Small size for small form factor 小尺寸
- Design flexibility 设计灵活
- Increased energy saving 节能
- Enables better color mixing and smaller lighting systems
  小尺寸更好的混光效果和小系统应用
- Ease of thermal and optic design 易于热和光学设计
- Easily create different price / performance levels
  兼容性便于性价比的平衡

Applications 应用
- Architectural color-changing
  景观照明及色彩变幻
- Entertainment stage & studio
  舞台灯光
- Transportation 交通指示
- Remote Phosphor
  远程荧光粉应用
- Emergency vehicle 应急车
- Dental and medical 牙齿固化

	XB-D color						XP-E color						XP-E2 color					
Part No. 产品编号	XBDROY-00-0000-000000N01	XBDBLU-00-0000-000000201	XBDGRN-00-0000-000000D01	XBDAMB-00-0000-000000801	XBDRDO-00-0000-000000C01	XBDRED-00-0000-000000701	XPEROY-L1-0000-00B01	XPEBLU-L1-0000-00201	XPEGRN-L1-0000-00E01	XPEAMB-L1-0000-00901	XPERDO-L1-0000-00A01	XPERED-L1-0000-00801	XPEBRY-L1-0000-00P01	XPEBBL-L1-0000-00301	XPEBGR-L1-0000-00F01	XPEBAM-L1-0000-00901	XPEBRO-L1-0000-00B01	XPEBRD-L1-0000-00801
Color 颜色	Royal Blue 品蓝	Blue 蓝	Green 绿	Amber 黄	Red-orange 橘红	Red 红	Royal Blue 品蓝	Blue 蓝	Green 绿	Amber 黄	Red-orange 橘红	Red 红	Royal Blue 品蓝	Blue 蓝	Green 绿	Amber 黄	Red-orange 橘红	Red 红
DWL 主波长范围 (nm)	450-465	465-485	520-535	585-595	610-620	620-630	450-465	465-485	520-535	585-595	610-620	620-630	450-465	465-485	520-535	585-595	610-620	620-630
Viewing Angle 视场角	135°	35°	135°	140°	140°	140°	130°	130°	130°	130°	130°	130°	135°	135°	135°	130°	130°	130°
Thermal Resistance 热阻(°C/W)	6.5	6.5	11	7	5	5	9	9	15	5	5	5	9	9	15	7	5	7
Max Current (mA)	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	700	700	1000	1000	1000	1000	1000	1000
Typical Vf (V)	3.1 @ 350 mA	3.1 @ 350 mA	3.3 @ 350 mA	3.1 @ 350 mA	2.25 @ 350 mA	2.25 @ 350 mA	2.25 @ 350 mA	2.25 @ 350 mA	3.3 @ 350 mA	2.1 @ 350 mA	2.1 @ 350 mA	2.1 @ 350 mA	3.1 @ 350 mA	3.1 @ 350 mA	3.2 @ 350 mA	2.2 @ 350 mA	2.2 @ 350 mA	2.2 @ 350 mA
Technical Performance (lm) 技术参数 (流明)	min.550mW @350mA & Tj=25°C	min.39.8lm @350mA & Tj=25°C	min.107lm @350mA & Tj=25°C	min.73.9lm @350mA & Tj=25°C	min.100lm @350mA & Tj=25°C	min.67.2lm @350mA & Tj=25°C	min.500mW @350mA & Tj=25°C	min.39.8lm @350mA & Tj=25°C	min.114lm @350mA & Tj=25°C	min.80.6lm @350mA & Tj=25°C	min.87.4lm @350mA & Tj=25°C	min.73.9lm @350mA & Tj=25°C	min.575mW @350mA & Tj=25°C	min.45.7lm @350mA & Tj=25°C	min.73.9lm @350mA & Tj=25°C	min.80.6lm @350mA & Tj=25°C	min.93.9lm @350mA & Tj=25°C	min.73.9lm @350mA & Tj=25°C

Cree XLamp Color Arrays — XM-L; Royal Blue LED XT-E
科銳 XLamp 颜色阵列LED — XM-L；品蓝LED XT-E

Supplier 供应商

Description
The XLamp XM-L Color LED are multi-color LEDs that provides high lumen output in a small package. Compared to discrete LEDs, XLamp XM-L, MC-E Color LEDs reduce the distance between LED die, creating a small optical source for excellent optical control and efficient color mixing. XLamp XM-L, MC-E Color LEDs can reduce LED system complexity by reducing the number of components required.

描述
Xlamp XM-L 颜色LED将 R、G、B、W 四个芯片封装在一起，带来高光通量输出。相对于四种颜色分离器件的构成，XM-L、MC-E颜色LED减小了晶片之间的距离，紧凑的光源尺寸适合更好地光学控制，提高了颜色混光效率，并减少系统LED光源的使用数量。

Features 特性
- High lumen density 高流明密度
- Electrically neutral thermal path 热电分离
- Available in red, green, blue and white in a single package
  个别包装的红、绿、蓝、白可供选择
- RoHS and REACH-compliant
  通过 RoHS 和 REACH 认证

Benefits 优点
- Tightest die placement for color mixing
  紧凑的晶片间距带来更好的色彩混光
- Small size for small form factor 小尺寸
- Low power consumption 低功率损耗
- Increased energy saving & efficiency 高效节能
- Reduce total system cost 减少系统成本

Applications 应用
- Architectural color-changing
  景观照明及色彩变幻
- Entertainment stage & studio
  舞台灯光
- Transportation 交通指示
- Directional lighting 指向性照明

	XM-L color								XT-E RoyalBlue								
Part No. 产品编号	XMLCTW-A0-0000-00C3AAAA1				XMLCTW-A0-0000-00C2AAAB1				XTEARY-00-0000-000000N01	XTEARY-00-0000-000000N02	XTEARY-00-0000-000000N03	XTEARY-00-0000-000000N04	XTEARY-00-0000-000000N05	XTEARY-00-0000-000000N06	XTEARY-00-0000-000000N07	XTEARY-00-0000-000000N08	XTEARY-00-0000-000000N09
Color 颜色	Blue 蓝	Green 绿	Red 红	Cool White 冷白	Blue 蓝	Green 绿	Red 红	Neutral White 中性白	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝	Royal Blue 品蓝
DWL 主波长范围 (nm)	450-465	520-535	620-630	5700K-8000K	450-465	520-535	620-630	5700K-8000K	450-465	450-465	450-465	450-465	455-460	460-465	452.5-462.5	452.5-462.5	452.5-462.5
Viewing Angle 视场角	130°	130°	130°	130°	130°	130°	130°	130°	140°	140°	140°	140°	140°	140°	140°	140°	140°
Thermal Resistance 热阻(°C/W)	3.5				3.5				5	5	5	5	5	5	5	5	5
Max Current (mA)	1000	1000	1000	1000	1000	1000	1000	1000	1500	1500	1500	1500	1500	1500	1500	1500	1500
Typical Vf (V)	3.1 @ 350 mA	3.3 @ 350 mA	2.25 @ 350 mA	3.1 @ 350 mA	3.1 @ 350 mA	3.3 @ 350 mA	2.25 @ 350 mA	3.1 @ 350 mA	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C	2.85 @ 350 mA & 85°C
Technical Performance (lm) 技术参数 (流明)	min.13.9lm @350mA & Tj=25°C	min.87.4lm @350mA & Tj=25°C	min.45.7lm @350mA & Tj=25°C	min.100lm @350mA & Tj=25°C	min.13.9lm @350mA & Tj=25°C	min.87.4lm @350mA & Tj=25°C	min.45.7lm @350mA & Tj=25°C	min.80lm @350mA & Tj=25°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C	min.550mW @350mA & Tj=85°C

*NOTE : Above are new updated Cree LED products. For normal XP series, XR color, MX series, XP-E HEW, MC-E,MT-G, MP-L, CXA2011, XM-L, pls. contact with Arrow Asia lighting sales.
*注：上面列出的大部分是科锐新品LED。对于通用的XP系列、XR颜色、MX系列、XP-E HEW、MC-E、MT-G、MP-L、CXA2011、XM-L的产品，请和艾睿亚洲的照明销售代表联系。

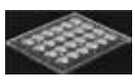
Lens / Optics | High Power Lighting Class LED for CREE
光学元件 | 供CREE 的照明级LED

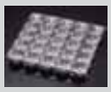
Description

The viewing angle is wide for Cree lighting class LED (115°-125°). Secondary optics is important and is widely used in the lighting system. For example, MR16 lamp replacement requires a narrow viewing angle and flux beam; for street lamp application, special beam pattern is needed to achieve certain lighting requirements. Arrow provides a wide range of standard lens products and we would also work with customers for custom made items.

描述

这一页主要介绍Cree照明级系列的LED系列的光学方案。Cree系列的LED视角比较宽(115-125度)，因此对于某些产品的应用，比如射灯，手电筒和MR16，这种视角需要转换成一个更加窄的光束角，又或是像路灯的应用，需要有一些特定的发光形状以达致一些规定，这些都是通过二次光学元件来实现的。所以二次光学元件在LED照明系统中是非常重要。艾睿除了提供厂家的标准产品外，亦积极配合客户开发订制产品。

Application 应用	XPE		XTE	
MR16	**LEDLINK** LL04CR-ABD24L06 28°, D:22mm H:7mm	**LEDiL** C12286_ANGIE-M 24°, D:34mm H:10.7mm	**LEDiL** C10755_CUTE-3-M 23°, D:35mm H:15mm	**LEDLINK** LL03OS-GK25L06 22°, D:33.2mm H:10mm
Torch	**LEDiL** FA10661_LXP-RS 6°, D:21.6mm H:14.6mm	**LEDLINK** LL01ZZ-EX10L 10°, D:21mm H:9.3mm	**Fraen** FNP-N2-SPL-HRF 12.5°, D:22mm H:12mm	**LEDLINK** LL01NI-ANE20L02 12.5°, D:19.4mm H:14.9mm
Par / Spot	**LEDLINK** LL09CR-FR25L 25°, D:45mm H:7mm	**LEDiL** C11670_ANNA-50-7-S 12°, D:50mm H:10.7mm	**LEDiL** C12607_VIRPI-S 15°, 74.9x74.9mm	**LEDLINK** LL09ED-GK60L06 38°, D:67mm H:11mm
High Bay	**LEDiL** C12345_HB-5X1-W 47°, 123x25mm	**LEDLINK** LL01CR-DF60L 60°, D:11.8mm H:6.5mm	**LEDiL** C12361_HB-2X2-W 57°, 50x50mm	**LEDLINK** LL01CR-DF80L 47°, D:11.8mm H:6.6mm
Street Lamp 1 (Symmetry)	**LEDLINK** LL01CR-AU85135L 85°x135°, 18x10.1mm	**LEDiL** C10926_STRADA-B 116°x44°, 18x10.1mm	**LEDiL** C11891_STRADA-SQ-T Asymmetric, 25x25mm	**LEDLINK** LL01CR-APM80150L02 80°x135°, 18x12.5mm
Street Lamp 2 (Symmetry)	**LEDLINK** LL24CR-AU75135L 135°x75°, 120x100mm 	**Khatod** KNAC2401A Asymmetric, 178x137mm	**LEDiL** CS12862_STRADA-IP-2X6 Asymmetric, 173x71.4mm	**Fraen** F3S-01-2x6 IESNA Type I
Street Lamp 3 (Symmetry)	**LEDiL** C13155_EMERALD-A 158°x73°, 21.6x6.9mm	**LEDLINK** LL01CR-KM6090L 60°x90°, 17.6x11.6mm	**LEDLINK** LL01CR-FT60135L 135°x66°, 18x9.3mm	**LEDiL** CA13057_FLARE-MINI-AD 104°x19°, 16x9.1mm
Tunnel Lamp	**LEDLINK** LL01CR-DL70130L02 130°x70°, 26X12.8mm	**Khatod** KNAC2409ADSIP Symmetric, 178x137mm	**LEDiL** C13155_EMERALD-A 157°x62°, 21.6x6.9mm	**LEDLINK** LL01CR-KM6090L 60°x90°, 17.6x11.6mm
Wall Wash	**LEDiL** FA11200_TINA-O 33°x15°, D:16.1mm H:9.7mm	**LEDLINK** LL01CR-DF3065L 30°x65°, D:11.8mm H:6.5mm	**Khatod** KEPL1359BEL Elliptical, D:21.5mm H:11.4mm	**LEDiL** CA11484_LXP2-O-90 36°x14°, D:21.6mm H:14.5mm
Flood Light	**LEDLINK** LL01ZZ-EX40L 40°, D:21mm H:9.3mm	**LEDiL** CA11360_LAURA-D 13°, 21.6x21.6mm	**LEDiL** CP12817_LXP3-RS2 10°, D:21.6mm H:14.5mm	**LEDLINK** LL01ZZ-EX25L02 25°, D:21mm H:9.3mm

Application 应用				
CXA15 optics	**LEDLINK** LL01ZZ-AAAxxR49 24°, 38°, 55°, 70x35mm	**LEDLINK** LL01CT-AJZxxR49 38°, 55°, 50x19mm	**LEDLINK** LL01CT-AOFxxL06 24°, 38°, 74.4x13mm	**LEDLINK** LL01ED-AYxxL02 10°, 38°, 43.8x24.5mm
CXA25 optics	**LEDiL** CN1333x_LENA-x 13°, 20°, 44°, 111x87mm	**LEDiL** CN1334x_LENINA-x 22°, 33°, 51°, 74x47.3mm	**LEDiL** CN13351_LENINA-XW 70°, D:74mm H:47.3mm	**LEDiL** CN13341_LENA-X-WAS Asymmetry, 111x39.9mm
CXA30 optics	**LEDiL** F13325_ANGELINA-S 28°, D:82mm H:31mm	**LEDiL** F13401_ANGELINA-M 40°, D:82mm H:31mm	**LEDiL** F13402_ANGELINA-W 52°, D:82mm H:31mm	
MKR optics	**Carclo** 10124 20.5°, D:26.5mm H:14mm	**Carclo** 10260 47.6°, D:26.5mm H:14mm	**LEDiL** CA12881_MINNIE-M 18°, D:35mm H:15.8mm	**LEDLINK** LL01CR-ABG24L 24°, D:34mm H:15.7mm
XH-B/G optics	**LEDiL** F13853_FLORENCE-Z90 95°, 61x286mm H:8.45mm	**LEDiL** C12608_VIRPI-M 30°, 74.9x74.9mm H:9.4mm 	**LEDiL** C12609_VIRPI-W 43°, 74.9x74.9mm H:9.4mm	
XQE optics	**LEDiL** C12469_LISA2-R-PIN 76°, D:9.9mm H:6.5mm	**LEDiL** C13299_STRADA-2X2-ME Asymmetric, 50x50mm H:8.15mm	**LEDiL** C13301_STRADA-2X2-T3 Asymmetric, 50x50mm H:7mm	**LEDLINK** C12360_ STRADA-2X2-DNW Asymmetric, 50x50mm H:11mm

Features 特性

- Available in single and multiple lens, lens with holder
  针对单个LED分带支架和无支架的光学元件
- High efficiency 出光效率非常高

Benefits 优点

- Customer can choose the right viewing angle single lens for many of their applications from Arrow Asia
  针对客户的多种应用Arrow都可以提供配套产光学方案给客户
- Easy to assembly
  容易组装
- Excellent light pattern compare with trandition light source
  优异的光图案，与传统光源优胜

Applications 应用

- General lighting (indoor or outdoor) 通用照明 (室内和室外)
- Architectural lighting 建筑照明
- High Bay 工矿灯
- Street Lamp 路灯
- Tunnel Lamp 隧道灯
- Industrial lighting 工业照明
- Portable lighting (includes camping, bike lighting, torch light, etc) 便携式照明
- Stage lighting 舞台灯光
- Replacement lamp 传统灯泡替换

Suppliers 供应商

carclo technical plastics

FRAEN

KHATOD OPTOELECTRONIC

LEDiL

LedLink Linking LEDs to The Real World

XML / XML2		MTG / MTG2	
LEDLINK LL01CR-ACZ38L02 38°, D:27.8mm H:10.2mm	**LEDiL** C11333_CUTE-3-SS 19°, D:35mm H:15mm	**LEDiL** C12095_MINNIE-M 26.5°, D:32.4mm H:14.75mm	**LEDLINK** LL01CR-ABG24L 24°, D:34mm H:15.7mm
LEDLINK LL01ZZ-AHA05L 5°, D:50mm H:28mm	**LEDiL** FCA12104_IRIS 9°, D:38mm H:27.7mm	**LEDiL** CN13127_MIRELLA-50-S-PF 17°, D:49.9mm H:24.8mm	**Carclo** 10756 26.5°, D:30mm H:15.15mm
LEDLINK LL01ED-ABX24L06 20°, D:75.8mm H:24.4mm	**LEDiL** CN12486_MIRELLA-50-S 15°, D:49.9mm H:23.9mm	**LEDiL** CN13127_MIRELLA-50-S-PF 17°, D:49.9mm H:24.8mm	**LEDLINK** LL01ED-ABX24L06 20°, D:75.8mm H:24.4mm
LEDiL C12361_HB-2X2-W 57°, 50x50mm	**Carclo** 12596 56°, 35x35mm	**LEDiL** LL01CR-ZE45L02 45°, D:35mm H:20.4mm	
LEDLINK LL01LU-AGV80150L 80°x150°, 32x18.5mm	**Carclo** Hubble Asymmetric, 26x19mm		
LEDLINK LL01CR-XW70140L02 70°x140°, 32x17.6mm	**LEDiL** C12410_STRADA-SQ-A-T Asymmetric, 25x25mm		
LEDiL C13155_EMERALD-A 157°x83°, 21.6x6.9mm	**LEDLINK** LL01CR-XW70140L02 70°x140°, 32x17.6mm		
LEDLINK LL01CR-XW70140L02 70°x140°, 32x17.6mm	**LEDiL** C13155_EMERALD-A 157°x83°, 21.6x6.9mm		
LEDiL FA11941_LXM-REC 37°x28°, D:21.6mm H:14.8mm	**LEDLINK** LL01LU-AA2065L 20°x65°		
LEDLINK LL01CR-WI25L02-M2 70°, D:32.8mm H:18.1mm	**LEDiL** FA11902_TINA3-W 37°, D:16.1mm H:7.3mm	**LEDiL** CA12240_MINNIE-WWW 74°, D:35mm H:15.8mm	

LEDiL C1091x_BRIDGET-x 38°, 46°, 60°, 22.6 x12.8mm	**LEDiL** CN1319x_LENINA-x 14°, 22°, 40°, 74x47mm	**LEDiL** C1250x_MIRA-x 31°, 39°, 53°, 32.4x14.7mm	**LEDiL** C1247x_MIRELLA-50-x 16°, 28°, 42°, 49.9x24mm
LEDLINK LL01CT-APGxxL06 24°, 38°, 84.6x18mm	**LEDLINK** LL01ED-AKXxxR49 24°, 38°, 116x35.9mm	**LEDLINK** LL01ED-ALJxxR18 24°, 38°, 45°, 86x23.2mm	**LEDiL** LL01ED-ASAxxL06 12°, 24°, 38°, 91x22mm
LEDiL C10686_EVA-W 48°, D:35mm H:16.4mm	**LEDLINK** LL01CR-ABH60L06 60°, D:50mm H:10.4mm	**LEDiL** C12767_HB-SQ-A High Bay, 54°, 25x25mm	**LEDLINK** LL01LU-AGV80150L02 180°x80°, 32x18.5mm
LEDiL C12362_STRADA-2X2-DWC Asymmetric, 50x50mm H:6mm	**Carclo** 12769 50.0 x 50.0mm Asymmetric Type II Medium	**Carclo** 12782 75.0 x 50.0mm Square Type V Medium	

LED Driver — Buck Converter
LED 驱动 — 降压整流器

Description

Buck Converter can drive one or more Cree XPG and XML LED for battery power application such as torch and portable lighting device. It provoides up to 3000mA output current. State of art controller reduces circuit components count as well as simplified circuit design.

描述

在一些使用电池供电的照明应用中，如手电筒和其他便携设备可以使用降压电路来驱动单颗或多颗 Cree XPG 或 XML LED 。它可以提供高达 3000mA 的驱动电流。一个设计得好的控制器也可以做得非常简单。

Features 特性

- High efficiency, up to 98% 效率高达98%
- Buck/ Boost design 升/降压设计
- High current output 大电流输出
- SMD reduce product size 贴片工艺减小尺寸
- Low input voltage operation 低输入电压工作
- Low start up voltage and high current 低启动电压和大电流

Benefits 优点

- Enable long battery Life 延长电池寿命
- Parallel/serial LED connectoin 串/并联LED
- Low components count 元件数量少
- High frequency for compact size 高频小尺寸设计

Applications 应用

- Torch 手电筒
- Single-LED driver module 单LED驱动模组
- Flash light 闪光灯
- Bike lighting 自行车灯
- Streetlamp 2nd constant current 路灯二次恒流
- Track Lamp 轨道灯
- Portable projector 便携式投影仪

Suppliers 供应商

Texas Instruments Authorized Distributor · Infineon · Linear Technology · ON Semiconductor · Diodes Incorporated · ST life.augmented

Supplier 供应商	TI					Infineon		LTC		ON Semi		Diodes	ST				
Part No. 产品编号	TPS63000 buck & boost	LM3429	LM3414/ HV	LM3401	LM3405A	ILD4035	ILD4001	LTC3453 buck & boost	LTC3454 buck & boost	NCL30160	CAT4201	ZXLD1322	LED2000/ LED2001/ ST1CC40	LED5000	A6902D/ L6902D	STCF03 Buck Boost	STCF07 Buck Boost
Min. Input Voltage 最少输入电压	1.8V	4.5V	4.5V	4.5V	3V	4.5V	4.5V	2.7V	2.7V	6.3V	6.5V	2.5V	3V	5.5V	8V	2.7V	2.7V
Max. Input Voltage 最大输入电压	5.5V	75V	42V/65V	30V	22V	42V	42V	5.5V	5.5V	40V	35V	15V	18V	48V	36V	5.5V	5.5V
Max. Output Power 最大输出功率	up to 1200mA	3A+	1A	3A	1A	350mA	50mA	500mA	1A	Adjustable	0.35A	Up to 700mA	3A /4A	3A	1A	800mA	1A
Output Voltage 输出电压	1.2 to 5.5V	75V	42V/65V	up to 30V	up to 20V	3V to 40V	3V to 40V	5.15V	5.15V	up to 40V	up to 35V	3V or above	up to Vin	up to Vin	1.235V to 34V	1LED	1LED
Est. Efficiency 效能	96%	93%	Peak 98%	85-92%	85-90%	up to 95%	up to 95%	up to 90%	up to 90%	up to 94%	up to 94%	>85%	—	—	90% Typical	92%	85% Typical
Switching Frequency 开关频率	1.25MHz	Up to 2MHz	250K-1M	1.5MHz	1.6MHz	500KHz	500KHz	1MHz	1MHz	Up to 1.4MHz	Up to 700kHz	350KHz	850KHz	850KHz	250KHz	1.8MHz	1.8MHz
Feedback Voltage 反馈电压	500mV	245mV	200mV	200mV	205mV	118mV	118mV	Fix output	Fix output	220mV	220mV	10.5mV	100mV	200mV	1.235V	250mV	160mV
Built-in Mosfet 内置Mosfet	Yes (not specify Rdson)	No	Yes	No	Yes (300mOhm NMOS)	Yes (Bipolar Power Transistor)	Yes (Bipolar Power Transistor)	Yes (PMOS 0.3ohm/ NMOS 0.25ohm)	Yes (PMOS 170mOhm/ NMOS 130mOhm)	Yes	Yes	Yes (Build in BJT)	Yes	Yes	Yes	Yes	Yes
Component Count 零件总数	5	24	6	8	10	6	6	5	5	10	8	10	6	12	10	7	5
Package 封装	QFN-10	TSSOP-14	8 PSOP / 8 LLP	8 MSOP	SOT23	SC74-6-4	SC74-6-4	QFN-16	DFN-10	SO8	TSOT-23	DFN1443	SO8/ DFN-8 4x4	SO8	SO8	DFN-20 4x4 BGA-25 3x3	DFN-16 4x4
Remark 附录	Auto switch to Buck/ Boost, Integrated MOSFET for Syn Rect	Buck/ Boost SEPIC AEC-Q100 grade 1 qualified PWM and Analog Dimming	No loop compensation requirement and thermal shutdown	Buck	Drives up to 1A with more than 1 LED, OCP and thermal shutdown	Buck	Buck	Buck Boost achieved by syn H-bridge	Buck Boost achieved by syn H-bridge	Constant Current buck regulator	0.35A Constant Current buck regulator	Buck/ Boost, integrated BJT	Integrated MOSFET for Syn Rect	Buck	Buck AEC-Q100	Buck/ Boost. I2C Control	Buck/ Boost.

* Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

LED Driver — Boost Converter
LED 驱动 — 升压整流器

Description

Boost Converters can be designed to drive more than one high power XPG/XTE/XBD LED in series, and multi-chip CXA/MTG/MKR/XMLEZW LED with chip connected in series from battery pack. All the converters can provide a simpler and higher current output to drive high-power LEDs in voltage step-up application. Some controllers can access very low input voltage and oscillate at high frequency which reduce size of LED driver, those features are suitable for lighting application powered by limited size battery. Constant current driver features are recommended for maintaining constant lumen and color temp output throughout LED's life.

描述

升压电路应用于电池驱动的便携式照明设备中，可以驱动多个串联的高功率 XPG / XTE / XBD LED 或者多晶 CXA / MTG / MKR / XMLEZW LED，所有这些升压驱动都能提 供简单的设计和大电流的输出。某些控制器可以工作在很低的输入电压，很高的工作频率，由此可以把驱动器设计得很小。恒流控制可以保证LED输出恒定的流明和色温。

Features 特性

- High efficiency 高效率
- Boost output voltage up to 75V
  输出电压高达 75V
- Can access very low input voltage 超低电压工作
- Numerous LED in series 多LED串联工作
- Built-in MOSFET/Transistor
  内置MOSFET/Transistor

Benefits 优点

- Simple circuit design 电路设计简单
- Able to deliver high current output 可大电流输出
- Low component count 元件数量少
- High frequency for compact size
  高频開關尺寸減少
- Cost effective 成本经济
- Syn Rectifier reduce thermal stress
  同步整流减小热损耗

Applications 应用

- Torch 手电筒
- Track Lamp 轨道灯
- Undercabinet lighting 陈列柜照明灯
- Head lamp 头灯
- DC/DC constant current controller 恒流控制器
- Light bar 灯条
- Streetlamp 2nd constant current 路灯二次恒流
- Flash LED 闪光灯

Suppliers 供应商

Texas Instruments Authorized Distributor · ON Semiconductor · Diodes Incorporated · Fairchild · ST life.augmented · Micrel

Supplier 供应商	TI								ON Semi	Diodes	Fairchild	ST		Micrel
Part No. 产品编号	TPS40211	TPS61161/5	TPS61500 (3A)	TPS61058	LM3410	LM3492	LM3430	LM3424	NCV8873	ZXSC310	FAN5333A	L6920	STLD41	MIC3230
Min. Input Voltage 最少输入电压	4.5V	3V	2.9V	2.7V	2.7V	4.5V	6V	4.5V	3.2V	0.8V	1.8V	0.6V	3V	6V
Max. Input Voltage 最大输入电压	52V	18V	18V	5.5V	5.5V	65V	40V	75V	40V	8V	5.5V	5.5V	21V	45V
Output Voltage 输出电压	Adjustable	38V	38V	2.5V to 5.5V	24V	65V	48V	Adjustable	65V	Up to 16V (boost4 LEDs)	Up to 30V	6V	up to38V	Up to 60V
Max. Output Current 最大输出电流	Up to 1A or above	350mA (1.2A peak)	3A	up to 500mA	350mA to 1A	200mA*2	Up to 1A or above	up to 1A	4A	19mV	750mA	500mA	120mA	Up to 1A
Est. Efficiency 效能	up to 94%	90%	93%	up to 80%	88%	90%	up to 94%	up to 96%	up to 90%	94%	up to 88%	up to 94%	87% Typical	90% - 95%
Switching Frequency 开关频率	Up to 1MHz	1.2MHz max	200-kHz to 2.2MHz	650KHz	525KHz/ 1.6MHz	200K-1M	600KHz	Up to 2MHz	1M	200KHz	1.5MHz	Not Specify	1.4MHz	400KHz
Feedback Voltage 反饋电压	260mV	200mV	200mV	500mV	60mV	1.25V	1.25V	Adjustable (50mV – 1.24V)	200mV	19mV	110mV	1.23V	160mV	250mV
Built-in Mosfet 內置Mosfet	No	Yes (0.3Ohm)	Yes (0.13Ohm)	Yes (0.26Ohm/ 0.29Ohm)	Yes (170mOhm)	No	No	No	No	No	Yes (0.6Ohm)	Yes (PMOS 0.12Ohm/ NMOS 0.12Ohm)	Yes	No
Component Count 零件总数	16	6	12	10	5	12	16	32	15	6	5	7	4	14
Current Mode Operation 恒流	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Package 封装	10 MSOP	2mmx2mm QFN	14HTSSOP	3mmX3mm QFN10	SOT23-5	TSSOP	12LLP	TSSOP-20	SO8	SOT23-5	SOT23-5	TTSOP8	DFN-8 3mmx3mm	TSSOP16
Number of LED LED 数量	3-15	10	2-12	1	6	20	12-15	3-15	20	1-4	8	1	10	10-15
Remark 附录	Wide input range, ext MOSFET allow high current	Build in softstart and PWM brightness	Wide input range, allow high current	Shut down mode optimized battery life	High Freq, low standby current	Fit for electronic trasformer	Ext MOSFET allows high current output	HS Current Sense, Thermal Foldback	Automotive grade , non-synchronous boost controller	Low input voltage	Up to 1.5A Peak switching Current, High output voltage	Integrated Syn rect and reverse battery protection	Wide input range,	Various protection features and PWM dimming

* Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

Middle Voltage (12V or above) LED Driver
中端电压输入 LED 驱动 (12V 以上)

Description

Middle voltage LED drivers accept a wider input voltage (12V to 36V) and high current output. These drivers can drive high power/high brightness LED by serial or matrix. Meanwhile, these controllers also fit for application for secondary constant current control. Some of the listed drivers have dimming control, high efficiency and up to 75V DC input. They are very flexible to various application design.

描述

中压LED驱动的输入电压通常是从12V至36V，输出电流较大，它们能驱动多个LED的串联或串并联。同时也能应用于AC 二次侧的恒流控制。下面列出来的这些方案当中，某些可提供PWM调光控制，某些效率高，某些输入电压高达75V。因此，设计者可以根据需要来灵活设计。

Features 特性

- High output voltage / current
  高电压大电流输出
- High input voltage 高输入电压
- Very low feedback voltage 低反馈电压
- Dimming control input 调光控制

Benefits 优点

- Able to drive large amount of LED
  可驱动多个LED
- Compact design 小尺寸设计
- Simple design 设计简单
- High efficiency 高效率
- PWM dimming available 可 PWM 调光控制

Applications 应用

- MR16 replacement MR16卤素灯替换
- Automotive lighting 汽车照明
- Outdoor architectural lighting 户外建筑照明
- Streetlamp 2nd constant current 路灯二次恒流
- Light bar 灯条
- Track lamp 轨道灯

Suppliers 供应商

Supplier 供应商	NXP	TI								ON Semi		Diodes	Richtek	LTC			ISSI		ST		
Part No. 产品编号	SSL3401	LM3492	TPS 40211	TPS 61161/5	TPS 61500(3A)	TPS 92560	LM3424	LM 3414HV	LM 3409HV	NCP 30100	NCL 30160	ZXLD 1350	RT 8452*	LT 3474	LT 3475	LT3466	IS31LT 3360	IS31LT 3948	LED2000/ LED2001/ ST1CC40	LED5000	A6902D/ L6902D
Min. Input Voltage 最少输入电压	5V	4.5V	4.5V	3V	2.9V	3V	4.5V	4.5V	6V	6.3V	6.3V	7V	4.5V	4V	4V	2.7V	6V	5V	3V	5.5V	8V
Max. Input Voltage 最大输入电压	52V	65V	52V	18V	18V	18V	75V	65V	75V	60V	40V	30V	36V	36V	36V	24V	40V	100V	18V	48V	36V
Output Voltage 输出电压	User Defined	65V	Adjustable	38V	38V	20V	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	26V	25V	39V	Adjustable	50V	up to Vin	up to Vin	1.235V to 34V
Max. Output Current 最大输出电流	User Defined	200mA*2 *2	1A	350mA (1.2A switch)	3A	300mA	up to 1A	1A	4A	4A	1A	350mA	2A	1A	2*1.5A	2* 0.32A	1.2A	User Defined	3A/4A	3A	1A
Est. Efficiency 效能	75% Above	90%	up to 94%	90%	93%	up to 85%	up to 95%	up to 96%	up to 95%	up to 94%	up to 94%	95%	up to 94%	up to 88%	up to 88%	up to 81%	up to 98%	90% Typical	–	–	90% Typical
Switching Frequency 开关频率	12.5K	200K-1M	Set by ext resistor	1.2MHz max	200-kHz to 2.2MHz	up to 1.6Mhz	Up to 2MHz	250 kHz to 1 MHz	Base on Roff/Coff	Up to 700Hz	Up to 1.4MHz	250KHz-1MHz	350K	200KHz-2MHz	200KHz-2MHz	Fixed freq up to 2MHz	up to 1.0Mhz	20 kHz to 200 KHz	850KHz	850KHz	250KHz
Feedback Voltage 反饋电压	0.2V-2.47V	1.05V-2.5V	270mV	200mV	200mV	200mV	Adjustable (50mV – 1.24V)	–	Nil	38mV	220mV	100mV	190mV	1.25V	1.25V	200mV	–	240mV	100mV	200mV	1.235V (100mV)
Built-in Mosfet 内置Mosfet	No	No	No	Yes 0.13 Ohm	Yes 0.3 Ohm	No	No	Yes	No	No	Yes	Yes (1.5ohm)	No	Yes BJT	Yes BJT	Yes BJT	Yes	No	Yes	Yes	Yes
Component Count 零件总数	50	12	16	6	12	16	30	5	15	15	10	–	–	8	12	8	6	14	6	12	10
Package 封装	HVQFN 33	TSSOP	10 pin SON	2mmx 2mm QFN	14HT SSOP	10pin min SOIC	TSSOP2	ePSOP-8 LLP-8	eM POP10	TSOp-6	SO8	TSOT23 -5	SOP16 QFN3*3	TSSOP-16	TSSOP-20	DFN-10 and TSSop-16	SOT89-5	SOP-8	SO8 / DFN-8 4x4	SO8	SO8
Number of LED LED 数量	7	20	10	10	2-12	6	3-15	up to 18	10	1-10	1-10	1-5	1-10	6-8	6-8	12-15	12	up to 14	1-5	up to 18	up to 12
Topology 線路	User Defined	Boost	Boost, Flyback, SEPIC	Boost	Boost	Buck/ Boost	Buck/ boost/ SEPIC	Buck	Buck	Buck	Buck	Buck	Buck/ Boost	Buck	Buck	Boost	Buck	Boost	Buck	Buck	Buck
Built-in Dimming Control 調光控制	Yes	Yes	Yes	No, require external circuit	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	PWM	Yes	Yes	Yes	No
Remark 附录	Triac Dimming	Triac Dimming	Wide input range, ext MOSFET allow high current	Wide input range, ext MOSFET allow high current	Wide input range, allow high current	Wide input range	HS current sense, thermal foldback	Very wide input range	eMPOP10 improve thermal per-formance	Fixed off time buck LED Driver controller	Constant current buck regulator	Low part count, high efficiency	Controller for Buck Boost or Buck-Boost topology	Integrated diode and 1A driving current	Dual step down driver	Dual step up converter	Wide input range	–	Integrated MOSFET for Syn Rect	Buck	Buck

* Also available in RT8470 for MR16 Applications. MR16應用可同時選用RT8470。
** Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

High Voltage LED Driver (Output Power Level <25W)
AC 高压低功率的 LED 驱动 (25W以下)

Description

High voltage low power LED driver can connect to Universal Off-Line input (85V to 265V AC input) directly. These drivers can provide up to 1A driving dependent on designer application. Most of the drivers have isolated/non-isolated configuration. For indoor lighting application, some of the LED driver controllers can be compatible with Triac dimmers and well fitted with MCE and MPL LED. With proper design, those controllers can perform very high efficiency in compact size to fit various lighting fixture form factor.

描述

高压稍低功率的LED驱动可以直接连接到全球电网(85V至265V)。如果设计需要，可以提供高达1A的电流。另外,也可連接調光器，并配合MCE及MPL LED应用在室内照明中。只要设计得当，多数此类隔离/非隔离的驱动能够做到高效率并且能够适应各种灯具。

Features 特性

- Universal input 全电压输入
- Low feedback voltage 低反馈电压
- Some controllers with build-in MOSFET 一些控制器内内置MOSFET
- Wide output voltage and current range 宽输出电压电流范围
- Precious current regulation 精密电流控制

Benefits 优点

- High efficiency 高效率
- Long life 长寿命
- Compact packaging 高集成度
- Design flexibility 设计灵活
- Compact size 小尺寸
- Jitter mode reduce EMI 導頻減少EMI问题
- Valley switching enhance efficiency 谷底开关技术提高效率

Applications 应用

- Transditional lamp retrofit 传统灯具替代
- Indoor lighting 室内通用照明
- Emergency lighting 应急照明
- Outdoor lighting 户外建筑照明
- Entertainment lighting 娱乐活动照明
- Garden lighting 园艺照明

Suppliers 供应商

NXP · Texas Instruments Authorized Distributor · ISSI · ON Semiconductor · Fairchild · Infineon · ST life.augmented

Triac Dimming 可配調光器

Supplier 供应商	NXP			TI				ISSI	Onsemi		Fairchild	Infineon
Part No. 产品编号	SSL2101/2	SSL21082/4	SSL2129A	TPS92210	TPS92075	LM3450	LM3447	IS31LT3935	LV5026	NCL30000	FL7730	ICL8002G
ACDC/ DCDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC
Min. Input Voltage 最少輸入电压	80Vac	80Vac	80Vac	90Vac	90Vac	85Vac	90Vac	85Vac	85Vac	85Vac	80Vac	85Vac
Max. Input Voltage 最大输入电压	132V/270V	132V/270V	132V/270V	132V/270V	132V/270V	305Vac	132V/270V	132V/ 265Vac	265Vac	265Vac	305Vac	265Vac
Output Voltage 输出电压	DC60V	DC60V	DC60V	DC50V	DC50V	15-100V	15-100V	Adjustable	DC50V	DC50V	DC50V	DC50V
Max.Output Power 最大输出功率	10-15W	10-25W	Any power	7W - 50W	7W - 50W	10 - 100W	5 - 15W	30W	30W	30W	3W-15W	60W
Est. Efficiency效能	85% or above	up to 90%	up to 95%	80% or above	80% or above	85% or above	85% or above	82% or above	80% or above	82% or above	About 80%	82% or above
Switching Frequency 开关频率	User Defined	User Defined	User Defined	Freq Modulation	Freq Modulation	User Defined	User Defined	User Defined	User Defined	User Defined	65K	User Defined
Feedback Voltage 反馈电压	500mV	500mV	500mV	700mV	500mV	2.5V	1.27V	200mV	600mV	500mV	7V	1.03V
Built-in Mosfet 内置Mosfet	Yes	Yes	No	No	No	No	No	No	No	No	No	No
Topology 線路	Buck or Buck	Flyback/Buck	Flyback/ Buck-boost	PFC+Flyback	PFC+Flyback	Active PFC + Flyback	PFC with Primary feedback	Flyback	Flyback	Flyback	Flyback	Flyback
Package 封装	SO12	SO12	SO8	SO8	TSOT6/SO8	TSSOP16	SO8	DFN-10	SO-10	SO-8	SO-8	PG-DSO-8
Number of LED LED 数量	Up to 20	Up to 15	Up to 20	Up to 15	Up to 32	Up to 15	Up to 15	User Defined	Up to 15	Up to 15	5	Up to 15
Build in Dimming Control 調光控	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible	Yes, Triac Dimming Compatible
Remark 附录	Triac Dim, very good linearity, Build in MOSFET and avoid E cap	Triac Dim, very good linearity, Build in MOSFET and avoid E cap	Triac Dim, very good linearity,better dimmer compatibility and higher efficiency with Active Damping	High efficiency and PFC, Compatible with Triac Dimming	High efficiency and PFC, Compatible with Triac Dimming	Active Power Factor Correction and Phase Dimming Decoder	Triac Dim very good Active Power Factor Correction and Phase Dimming Decoder	Flicker-Free™	Active PFC, Compatible with Triac Dimming	High efficiency and PFC, Compatible with Triac Dimming	High efficiency and PFC, Compatible with Triac Dimming	High efficiency and PFC, Compatible with Triac Dimming

Non-Triac Dimming 非調光

Supplier 供应商	NXP				TI				ISSI			ST			Onsemi	Fairchild
Part No. 产品编号	SSL5015/ SSL5018	SSL21081/3	SSL21151/3	SSL2109	TPS92314A	TPS92315	UCC28811	TPS92074	IS31LT3916	IS31LT3918	IS31LT3932	Viper15/25	HVLED805	HVLED807PF/ HVLED815PF	NCP1607	FL7732
ACDC/ DCDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC
Min. Input Voltage 最少輸入电压	100Vac	100Vac	100Vac	8V	85Vac	85Vac	90Vac	90Vac	85VAC	85VAC	85VAC	85Vac	85Vac	100Vac	85Vac	80VAC
Max. Input Voltage 最大输入电压	120/230Vac	230Vac	230Vac	190V	265Vac	265Vac	270Vac	132V/270V	265VAC	265VAC	265VAC	265Vac	265Vac	265Vac	265Vac	305VAC
Output Voltage 输出电压	DC20-100V	DC20-130V	DC90V	Adjustable	User Defined	DC 5V	DC50V	DC50V	DC40V	Adjustable	Adjustable	DC50V	DC50V	DC100V	DC50V	DC50V
Max.Output Power 最大输出功率	18W	8W/15W	5W/10W	User Defined	16W	5W	120W	7W - 50W	18W	User Defined	User Defined	10W	5W	5-15W	15W/ 90W PFC	10W
Est. Efficiency效能	93%	94%	86%	up to 95%	86% or above	75%	90%	80% or above	85%	up to 95%	83%	83%	83%	87%	82-85%	80%
Switching Frequency 开关频率	100K	User Defined	50K	100K	Freq Modulation	130Khz	Freq Modulation	Freq Modulation	50K	User defined	User defined	Freq Modulation	User Defined	User Defined	User Defined	67K
Feedback Voltage 反馈电压	—	500mV	500mV	250mV	700mV	750mV	2.5V	500mV	500mV	250mV	500mV	500mV	2.5V	750mV	2.5V	2.5V
Built-in Mosfet 内置Mosfet	Yes	Yes	Yes	No	No	No	No	No	No	No	No	Yes 20 Ohm	Yes 11 Ohm	Yes	No	No
Topology 線路	Buck	Buck or Buck-boost	Flyback/ buck-boost	Buck/Boost, Flyback	PFC with Primary feedback	Flyback	Flyback	PFC+Flyback	Flyback	Buck	fly-back, buck-boost and buck	Flyback	Flyback	PFC with Primary feedback	Boost/ Flyback	Flyback
Package 封装	HSO8	SO8	SO7	SO8	SO8	SOT23	SO8	TSOT6/SO8	MSOP-8	SOP-8	SOP-8	DIP7/SO16	SO16	SO16	SO8	SO8
Number of LED LED 数量	Up to 20	Up to 20	Up to 20	Up to 18	Up to 17	Up to 15	Up to 15	Up to 32	10	10	10	10	10	User Defined	20	10
Build in Dimming Control 調光控	No	No	No	No	No, require external Circuit	No	No	No	No	User configurable switch dimming	No	No, require external Circuit	No, require external Circuit	PWM Dimming	No, require external circuit	No
Remark 附录	High efficiency Non Isolated PFC up to 0.95	—	QR flyback, PSR, low BOM cost, low ripple,high efficiency	High efficiency	High efficiency and PFC, Compatible with Primary feedback	—	High efficiency and PFC,	High efficiency and PFC, Compatible with Triac Dimming	PFC up to 0.95	High efficiency	High efficiency	QR for valley switching	QR for valley switching	High efficiency and PFC, Compatible with Primary feedback	QR for valley switching	PFC Function

* Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

High Voltage LED Driver (Output Power Level > 25W)
AC 高压大功率的 LED 驱动 (25W以上)

Description

High voltage, high power LED driver can connect to Universal Off-Line input (85V to 265V AC input) directly and deliver over a hundred watt of electrical power. These drivers can provide very high output current and voltage as well as energy efficiency. Meanwhile, these controllers and solutions implement various protection features making the driver more reliable. The following simplified design and cost effective controllers fit in streetlight and outdoor illumination applications.

描述

高压大功率的LED驱动直接接到电网(85V至265V)，它能够提供超过100W的功率。这些驱动通常提供大电流高电压输出并且都有较高的效率，同时也能提供各种保护以提高驱动的可靠性。下面的这些方案都是设计比较简单，成本较低，可以应用到路灯和户外照明。

Features 特性

- Universal Input 全电压输入
- Low feedback voltage 低反馈电压
- PFC and DC/DC combo chip or single stage flyback PFC 集成PFC和DC/DC或者单级反激PFC
- Wide output voltage and current range 宽输出电压电流范围
- PWM dimming compatible 兼容PWM调光

Benefits 优点

- High efficiency 高效率
- Long life 长寿命
- Compact packaging 高集成度
- Design flexibility 设计灵活
- High output power delivery 高输出功率
- High reliability 高可靠性
- Ease of EMI/Safety approval 容易获得EMI/安规的认证

Applications 应用

- Street lamp 路灯
- Outdoor architectural 户外建筑照明
- Indoor lighting 室内照明
- Entertainment lighting 娱乐活动照明
- Transport lighting 交通灯
- High Bay 工矿灯

Suppliers 供应商

NXP · Texas Instruments Authorized Distributor · ST life.augmented · ON Semiconductor · Fairchild · International IOR Rectifier · Infineon

Supplier 供应商	NXP		TI			ST			ON Semi		Fairchild	IR	Infineon	
Part No. 产品编号	SSL4101/ SSL4120	SSL1530	UCC25710	UCC28811	UCC28063	L6562A	L6564	L6599A	NCL30051	NCP1652	FL6961	IRS25411	ICE2QS03	ICE2HS01G
ACDC / DCDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC	ACDC, DCDC	ACDC	ACDC
Min. Input Voltage 最少输入电压	70Vac	70Vac	85Vac	85Vac	85Vac	85Vac	85Vac	85Vac	85Vac	85Vac	85Vac	9V	85Vac	85Vac
Max. Input Voltage 最大输入电压	276Vac	265Vac	276Vac	276Vac	265Vac	132V/270V	305Vac	305Vac	276Vac	276Vac	270VAC	600VDC	265Vac	265Vac
Output Voltage 输出电压	80V	DC80V/ Low voltage constant voltage source	PFC Output voltage varies depends on loading	50V	PFC Output voltage varies depends on loading	50V	50V	48V	DC80V/Low voltage constant voltage source	DC80V/Low voltage constant voltage source	50V	10%-90% Input Voltage	DC80V/Low voltage constant voltage source	Depends on turn ratio
Max. Output Power 最大输出功率	300W	60W	Up to 200W	Up to 200W	500W	15W / 90W PFC	15W / 90W PFC	130W	300W	250W	60W	>500W	80W	up to 200W
Est. Efficiency 效能	88-92%	86-88%	90% or above	90% or above	96%	84-88%	84-88%	88-95%	88% or above	85% or above	80%	84-88%	84-88%	84-88%
Switching Frequency 开关频率	125KHz	63KHz	Self oscillating	Self oscillating	Freq Modulation	Freq Modulation	Freq Modulation	User Defined	User Defined Set by Ct (100KHz)	User Defined Set by Ct (100KHz)	100K	500KHz	Free Running	User Defined Set by Rfmin (30KHz to 1MHz)
Feedback Voltage 反馈电压	500mV	1V	2.5V	2.5V	800mV	2.5V	2.5V	2V	2.5V	600mV	2.5	500mV	2.5V	5V
Topology 線路	Flyback (PFC Single Stage)	Flyback	LCC	Flyback (PFC Single Stage)	Transition-Mode PFC	Boost/ Flyback	Boost/ Flyback	Half bridge/ LLC	Flyback (PFC Single Stage)	Flyback (PFC Single Stage)	Flyback (PFC single stage)	Buck	Flyback	Flyback
Package 封装	SO16	SO8	SO8	SO8	SO16	DIP8/SOIC8	SSO10	DIP-16/ SO-16N	SOIC16	SOIC16	SO-8	DIP8/SOIC8	DIP8	PG-DSO-20
Number of LED LED 数量	100-150	25	30	30	20-100	10-15	10-15	130	100-200	20-100	60W	50-100	30	Base on design
Built-in Dimming Control 調光控制	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No	No	No, require external Circuit	No, require external Circuit
Remark 附录	PFC flyback combo Chip/ Syn rect controller SSL1761	Fixed Freq Flyback	Transition Mode PFC. Multi channel contants current	Non-isolated Buck	High efficiency and Transition-Mode PFC Controller With Improved Audible Noise	Very High PF, Triac dimming available	Very High PF, All products, Triac dimming available	High Output Power, High efficiency	Crm PFC+LLC	Single Stage flyback PFC	Single Stage flyback PFC	Non Isolated Buck	Quasi Resonant	Half-bridge LLC resonant

* Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

LED Driver Module
LED 驱动电源模组

Description

Outsourcing LED driver module will be a good choice if you want to shorten the time to market and avoid technical risk. Arrow lighting is able to offer you a variety of LED dirver module solutions, ranging from 3W candle lamp to 250W street lamp.

描述

为了缩短灯具的研发周期以及避免独立开发驱动电源带来的技术风险，购买成品LED驱动电源模块将是一个好的选择。艾睿照明拥有从3W的蜡烛灯到250W路灯驱动电源模块的完善的LED驱动模块解决方案。

Features 特性

- Universal input 全电压输入
- High power factor 高功率因素
- High efficiency 高效率
- PWM, 0~10 analogue, triac dimming
  可实现 PWM，0~10V，可控硅调光功能
- Remote control/远程控制
  (DALI、DMX、PLC、Zigbee)
- OCT, SCT, OVT, OTP protection functions
  完善的保护功能如 OCT、SCT、OVT、OTP 等
- Intelligence control 智能控制

Benefits 优点

- High efficiency 高效能
- High quality and reliability 高质量和高可靠性
- Shorten time to market 缩短上市时间
- Long warranty 保修期长
- Compliance with UL, CE etc agency standard
  符合UL，CE 等各种标准要求
- Diversity of products to meet different application
  产品种类齐全，满足各种应用需求

Applications 应用

- LED bulb/par lamp LED球泡灯，射灯
- T5/T8 LED tube lamp T5/T8 LED日光灯
- Down lamp 筒灯
- Indoor lighting 室内照明
- Outdoor lighting 户外照明
- Entertainment lighting 娱乐活动照明
- Industrial lighting 工业照明
- Agricultural lighting 农业照明

Suppliers 供应商

	Open Frame LED驱动模组(无外壳)
Candle lamp, GU10, bulb lamp/3W-10W 蜡烛灯、GU10、球泡灯/3W-10W	ADPOWER BLN series 3W~10W
Bulb lamp (dimming)/5W-12W 调光球泡灯/5W-12W	ADPOWER BLN series 5W~12W
Par lamp/9W-25W 射灯/9W-25W	Shinry LQC series 8W~12W
Par lamp (dimming)/9W-25W 调光射灯/9W-25W	Shinry LQC series 8W~12W
T5/T8 Tube lamp (Non-isolated) 非隔离T5/T8管形灯	Shinry LRC series 10W~26W
T5/T8 Tube lamp/9W-25W T5/T8管形灯/9W-25W	Shinry LRC series 6W~26W

	Indoor (Casing) 室内LED驱动模组	Outdoor (Casing) 防水LED驱动模组	DCDC Driver	Smart LED driver 智能LED驱动
Down lamp, panel lamp, track lamp/4W-40W 筒灯、面板灯、轨道灯/4W-40W	ADPOWER DLP series 4W~40W Recom RACD series 3W~30W	N/A	Recom RCD series 24V/48V RBD 12V	N/A
Down lamp(dimming) 调光筒灯	Shinry LQC series 3W~12W	N/A	N/A	N/A
Tunnel lamp, street lamp/15W-240W 隧道灯、路灯/15W-240W	N/A	Moons 12W~240W Adpower 35W~240W Recom 100W, 150W	Recom RCD series 24V/48V RBD 12V	Moons MU series 35W~200W Adpower HDP series 50W~200W
High/low bay/ 30W-150W 投光灯、工矿灯/30W-150W	Moons PU30W,UU60, UF100,UF150	Moons 35W~240W Adpower 35W~240W	N/A	Moons MU series 35W~200W Adpower HDP series 50W~200W

Microcontroller
微处理器

Description

MCU can be applied in communication, remote control and intelligence dimming for a LED lighting system. Programmable pattern display for flashing control such as SOS signal or any pattern pre-stored in Flash/ROM memory is supported. Some MCU controllers also consist of multiple LED driver channels for multiple LED string control.

描述

微处理器应用于LED照明系统的通讯、远程控制和智能调光等。另外，MCU为闪烁控制提供可编程图案显示，比如SOS信号或者任何預定存在於Flash/ROM中的图案。一些MCU控制器也带有多LED驱动通道以满足多芯片LED或LED串控制。

Features 特性

- Programmable timer/PWM out
  可编程Timer/PWM输出
- Built-in temperature sensor
  含有温度感应器
- ADC or analog comparator
  ADC或者模拟比较器
- Flash memory
  Flash记忆

Benefits 优点

- Ease of implementation
  容易设计使用
- Makes RGB easy
  颜色变化容易
- Improves color quality
  改善颜色质量

Applications 应用

- Intelligence dimming
  智能调光(舞台灯光、植物生长灯、景观照明)
- Touch dimming
  触摸调光
- Remote control
  远程控制(DALI、DMX)
- Pattern display
  图案显示

Suppliers 供应商

freescale · Atmel · NXP · Texas Instruments Authorized Distributor · CYPRESS PERFORM · RENESAS

Supplier 供应商	Freescale		Atmel				NXP		TI		Cypress	Renesas	
Part No. 产品编号	MC9S08QD2MSC	MC9RS08KA2	ATTINY261	ATTINY25	ATMEGA2564RFR2	ATXMEGA8E5	LPC812M101	LPC1112	MSP430F2012	MSP430F2001	CY8CLEDxx	M37548G1	M34283G2GP
MCU Type MCU类型	8bit	8bit	8bit	8bit	AVR Zigbee	8bit	32bit	32bit	16bit	16bit	8bit (M8C)	8bit	4bit
Min. Input Voltage 最小输入电压	2.7	1.8	1.8	1.8	1.6	1.6	2.4	2.4	1.8	1.8	7V	1.8	1.8
Max. Input Voltage 最大输入电压	5.5	5.5	5.5	5.5	3.6	3.6	3.6 with 5V tolerant I/O pins	3.6 with 5V tolerant I/O pins	3.6	3.6	32V	5.5	3.6
Standby Current 辅助电流	0.8uA@5V	1uA@5V	0.15uA	0.1uA	0.75uA	0.1uA	0.17uA@3V	0.22uA@3V	0.5uA@3V	0.5uA@3V	18uA	0.1uA	1uA
External Interrupt 外部中断	Yes	Yes	16	6	17	26	Yes	Yes	Yes	Yes	Yes	Yes	No (but have wake up pins)
Timer Interrupt 时钟中断	Yes	Yes	9	6	18	14	Yes	Yes	Yes	Yes	Yes	Yes	No
Memory 寄存器	2K Flash	2K Flash	2K Flash	2K Flash	256 K Flash	8K + 2K	16K Flash	16K Flash	2K Flash	1K Flash	16K Flash	2K QzROM	2K QzROM
RAM 随机存取存储器	128B	64B	128 Bytes	128B SRAM	32K Bytes	1K Bytes	4KB SRAM	4KB SRAM	128B	128B	1K SRAM	192B	32B
# of Timer 定时器大小	2ch 16bit	1ch 8bit	2	2	6	3	1* SCT, 1* MRT	2* 32bit Timer; 2* 16bit Timer	1ch 16bit	1ch 16bit	8 (8bit)/ 2 (32bit)	1x16bit, 2x8bit	2ch 8bit
A/D 模数转换	4ch 10bit	Comparator	10bit* 11channel	10bit* 4channel	10bit* 8channel	12bit* 16channel	Comparator	8ch 10bit	1ch 10bit	Comparator	2 channel 12bit	6ch 10bit	No
Other Features 其它特性	Temp.sensor	N/A	1*IIC, 1*SPI, 1*Comparators, 128 Bytes Eeprom	1*IIC, 1*SPI, 1*Comparators, 128 Bytes Eeprom	MCU + Zigbee transceiver, 1*IIC, 1*SPI, 1* UART, 1*Comparators, 8192 Bytes Eeprom	1*IIC, 1*SPI, 2*UART, 12Bit* 2 channel DAC, 2*Comparators, 128 Bytes Eeprom	DALI/ DMX	DALI/ DMX	N/A	N/A	1 to 4 FET/ GateDrvrs, CapSense, DMX512/DALI	N/A	N/A
GP I/O GP输入/输出	6	4/6	16	6	33	26	18/14	22/28	10	10	14	16	16
Package 封装	8 PDIP 8 NB-SOIC	6 DFN(3x3mm) 8 NB-SOIC 8 PDIP	MLF(VQFN)-32, PDIP-20, SOIC-20, TSSOP-20	MLF(WQFN)-20, PDIP-8, SOIC(150mil)-8, SOIC(208mil)-8	VQFN (Sawn)-48	QFN-32, TQFP-32, UQFN (Sawn)-32	TSSOP20; TSSOP16; XSON16	TSSOP28; HVQFN33	14PDIP 14TSSOP 16QFN	14PDIP 14TSSOP 16QFN	QFN56	20pin SSOP	20pin SSOP
Operating Temp 操作温度	-40 to 125°C	-40 to 85°C	-40 to 105°C	-40 to 105°C	-40 to 125°C	-40 to 85°C	-40 to 105°C	-40 to 85°C	-40 to 105°C	-40 to 105°C	-40 to 105°C	-20 to 85°C	-20 to 85°C
C-compile 编译	Yes	Yes	GCC, IAR, Keil	GCC, IAR, Keil	GCC, IAR, Keil	GCC, IAR, Keil	Yes	Yes	Yes	Yes	Yes	Yes	No

* Yellow highlight means best in class. 标示黄色的表示在系列中是最好的。

Smart Lighting
智能照明系统

Description

Smart Lighting Control refers to a system that controls the on/off condition of lighting in a building. Usually it detects the human occupancy and makes judgments based on that. A large amount of energy will be saved with this technology.

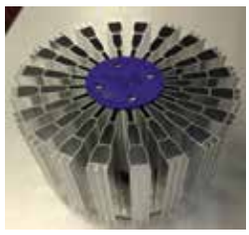
描述

智能照明控制是指在建筑物内/外控制开/关和调光的照明系统。检测人类居住和基础情况上而作出判断，利用这种技术而节省大量能源。

Suppliers 供应商

Suppliers 供应商	NXP	Freescale		Silicon Labs	Atmel	TI	
Part Number 型号	JN5168	MC132 series	KW2x Series	EM35 series	ATmega128RF	CC2530	CC2538
Hardware 硬体							
Power consumption - Active (Rx/Tx) 功耗 - 工作 (RX / TX)	17/15mA	37/30mA	19/15mA	26/31mA	12.5/14.5mA	24/29mA	20/24mA
Power consumption - Sleep (time on/deep sleep) 功耗 - 睡眠 (待机/深睡)	6.4mA/0.1uA	6.5mA/1uA	17mA/1uA	7.5mA/0.4uA	4.1mA/0.25uA	6.5mA/0.4uA	13mA/0.4uA
Radio Performance - Link Budget 射频性能 - 链路预算	97.5dB	95dB	110dB	103-110dB	104dB	101.5dB	104dB
MCU Performance MCU性能	32bit/32MHz	8bit/40MHz	32bit/50Mz	32bit/24MHz	8bit/16MHz	8bit/32MHz	32bit/32MHz
Embedded Memory Size - Flash/RAM/ROM 嵌入式内存大小 - 闪存/RAM/ROM	256/32/4kB	32-60/4/0kB	512-256/ 64-32/4kB	128-192/ 12/0kB	128/16/4kB	32-256/8/0kB	128-512/ 32/0kB
Peripherals 外设	ADC, DAC, UART, SPI, I2C, Timer, Comparator	ADC, UART, SPI, I2C, Timer, Comparator	SPI, UART, I2C, USB, RTC, Timer, ADC, DAC	ADC, UART, SPI, TWI, I2C, Timer	ADC, DAC, UART, SPI, I2C, Timer	ADC, UART, Timer	ADC, UART, I2C, SPI, USB
Software Stacks 软件协议							
IEEE802.15.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zigbee PRO	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6WLOPAN	Yes	NA	NA	NA	Yes	NA	Yes
RF4CE	Yes	Yes	Yes	NA	Yes	Yes	NA

HEAT SINK
散热器



Suppliers 供应商

Description

Heatsink is a key component in LED lighting, it helps to conduct heat from LED to the ambient in order to keep LED under a controlled temperature. In order to achieve system long lifetime, Arrow supports heatpipe-inside alumimum heatsink for high bay application, LEDLINK standard alumimum heatsink for A19, PAR, AR111, Candle and MR16.

描述

在LED照明产品中，散热器是非常重要的元件，它能帮助把热有效地从LED导走以维持LED工作在控制的范围。小心正确选择散热器对于LED的寿命是必要的。艾睿能提供适用于工矿灯，带导热管技术的铝制散热器。

Features 特性

- Fast heat dissipation 散热快
- Various shapes and sizes available
  配有各种形状和尺寸
- Low thermal resistant 低导热性

Benefits 优点

- Sustain LED Junction temperature
  维持LED结温不变

Applications 应用

- Street lamps 道路照明
- General lighting 通用照明
- High Bay 工矿灯
- Replacement lamp 传统灯泡替换
- Downlight 筒灯

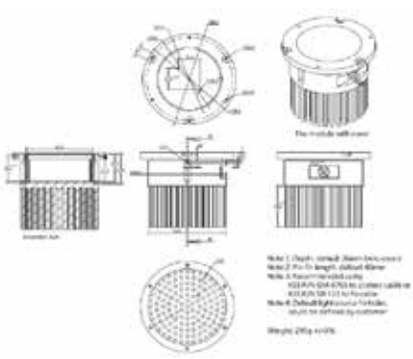
Heatpipe-inside Heatsink 带导热管技术的铝制散热器

- Heatpipe-inside, conduct heat more fast out the LED
- Relatively small size
- Total solution for High bay
- 内含导热管技术的散热器，能帮助更快把热从LED带走
- 相对较小的体积
- 工矿灯的应用有全套的配件

LEDLINK heatsink modules, A19, PAR, AR111, Candle, MR16
雷笛克散热器模块 A19，PAR，AR111，Candle，MR16

Cold-forged aluminum alloy heatsink 冷锻高传导铝制散热器

- Formed by cold forged aluminum alloy, high thermal conductivity efficiency
  冷锻造铝合金，导热系数高效率形成
- Optic and heat sink parts were integrated as one module
  由光学与散热片集成为一个模块
- Total solution for High bay
  完美工矿灯解决方案
- Free air cooling technologies. No active cooling parts, no wear out issue
  配有空气冷却技术。无主动散热部件，无磨损问题
- This Direct Heat Sink (DHS) module can be driven up to 45W system power consumption
  直接散热器 (DHS) 模块可驱动高达45W系统功耗



PCB | MCPCB
线路板 | 铝基板

Description

High current is required when driving the high-brightness LEDs, thermal management becomes increasingly important especially when the number of LED count increase. Arrow lighting team will source and provide different PCBs so that our customers have the world's best commercially available with fast heat-drain PCBs. Arrow single LED per MCPCB and multi-in-1 MCPCB are available for special customers' needs.

描述

由于驱动高亮度LED需要电流高，所以散热变得越来越重要，特别是当LED数量增加的时候。为了使我们的客户拥有全世界最好最快的商用散热PCB，艾睿照明小组开发并且提供多样化的PCB，Arrow也会提供给单颗LED的铝基板和多合一的铝基板。

Features 特性

- Available in MCPCB, at about 1 to 4 w/m-'K
  铝基板，导热系数在1-4w/m-'K
- Available in special MCPCB, at about 401 w/m-'K
  超高导铝基板，导热系数在401w/m-'K
- Arrow custom made solution compatible with certain brand of optics (Arrow solution)
  艾睿自主设计的铝板配合特订透镜

Benefits 优点

- Better thermal MCPCB
  散热比铝基板好
- Conduct heat much faster
  经特别工艺制造，更直接的导热
- Industrial standard
  符合工业标准

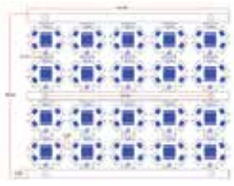
Applications 应用

- Torch light or any single to multiple LED source of lighting
  手电筒、任何带1到多颗LED光源
- Street lighting, park lighting
  路灯、庭院灯
- General lighting 通用照明
- High bay, stage lighting or any LED > 3W
  工矿灯、舞台灯等或适合用于单个LED大于3W

Standard Aluminum Star Board 标准星形鋁基板

20mm star board, Thickness 1.6mm, Thermal conductivity: 2.0W/mK, for Cree LED, Ref. Price: USD0.22/pc, 20pcs / panel
20mm 星形板、1.6mm 厚度、导热系数 2.0W/mK、配Cree的LED、参考价格 USD0.22/pc、20拼板

ARR2-CL	ARR2-XM	ARR2-MLBE	ARR2-MK
ARR2-CLV6A	ARR2-MX	ARR2-MCE-P	ARR2-XBQ
ARR2-XP	ARR2-XB	ARR2-MCE-S	ARR2-XT
ARR2-MT	ARR2-XR	ARR2-XML-COLOR	

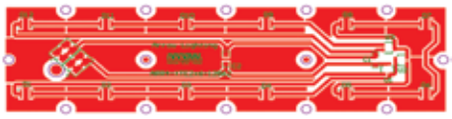


MHE301 Star Board 基于MHE301技术的星形板

20mm star board, Thickness 1.0mm, Thermal conductivity: 401.0W/mK, for Cree LED, Ref. Price: USD0.56/pc, 35pcs / panel
20mm 星形板、1.0mm 厚度、导热系数 401.0W/mK、配Cree的LED、参考价格 USD0.56/pc、35拼板

MHE301R12020X0111 (For XM series)
MHE301R12020P0111 (For XP series)
MHE301R12020M0111 (For MTG series)

Arrow Custom made MCPCB 艾睿自主设计的铝基板



145mm x 43.5mm, 1.6mm thickness, 2.0W/mKCree XTE 2x6pcs for street lamp application
Compatible with LEDiL CS12862 IP67 street lamp lens

145mm x 43.5mm，1.6mm 厚度，2.0W/mK 导热 Cree XTE 2x6pcs 路灯应用
配合 LEDiL CS12862 IP67 路灯透镜

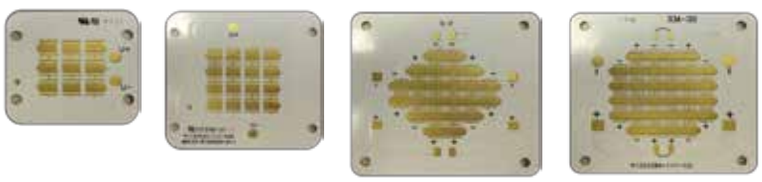
P/N: ARR4-XTE2x6-12862

55mm, 60mm, 65mm MCPCB for light bulb1.6mm thickness, 2.0W/mKFor 5630 LEDs, 12pcs, 16pcs and 30pcs
Compatible with HELF light bulb heatsink

55mm、60mm、65mm 直径球泡灯用的铝基板1.6mm 厚度、2.0W/mK 导热
配合12pcs、16pcs 及 30pcs 5630 LED 灯

P/N: G55-5630-12
P/N: G60-5630-16
P/N: G65-5630-30

MHE301 LED Array 基于MHE301技术的LED阵列



LED Array based on MHE301, achieve 401W/mK
LED array for XML targered in High Bay
基于MHE301技术的LED阵列，能达到401W/mK
配合XML LED，主攻工矿灯

P/N: MHE301R13535X0911 (3x3)
P/N: MHE301R15050X1611 (4x4)
P/N: MHE301R16060X2422 (24-in-1)
P/N: MHE301R16060X3222 (32-in-1)

Arrow Lighting Application Solution — AC/DC Street Lamp Application
艾睿照明应用方案 — AC/DC 路灯应用

Suppliers 供应商

Abstract

Arrow Lighting provides solutions on street lamp lighting design in high power LED, high efficiency LED driver as well as lens/optics. Apart from street lamp application, this design concept can also be applied in outdoor lighting such as floodlight and spotlight.

摘要

艾睿照明提供大功率 LED，高效率、高可靠性的 LED 驱 动和光学解决方案。除了路灯应用，这种设计概念也可运用于室外照明，如泛光灯及射灯。

Street Lamp Design Criteria

Many countries have implemented lighting design standard for streetlamp, in China, the streetlamp should be designed based on the national standard CJJ45-2006, which is a Chinese standard of lighting design in urban road. It governs the Luminance, Illuminance, Uniformity, threshold increment as well as surround ratio on various kind of road lane. Meanwhile, this standard also governs the street lamp luminaire efficiency, lumen maintenance as well as life time in real application.

路灯设计准则

在大多数国家，路灯照明已被标准化，在中国内地，路灯的法规标准为 CJJ45-2006 CJJ45-2006 规范了在不同种类的道路中的照度均匀度及边缘比例等要求。同时CJJ45 亦规范了路灯灯具的光效，光衰及寿命等。

Definition

- Average illuminance Eav : Horizontal illuminance averaged over a road area.
- Overall uniformity (of road surface luminance, illuminance) : Ratio of the lowest to the average value of illuminance.
- Longitudinal uniformity : Ratio of the lowest to the highest road surface luminance of the driving lanes.
- Threshold increment TI : Measure of the loss of visibility caused by the disability glare of the luminaires of a road lighting installation.
- Surround ratio SR : Average illuminance of strips just outside the edges of the carriageway in proportion to the average illuminance on strips just inside the edges.

定义

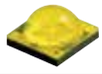
- 平均照度：最低照度和平均照度比值。
- 总体均匀度U0：最低照度和平均照度比值。
- 纵向均匀度UL：行车道，路面最低亮度和最高亮度的比值。
- 阈值增量TI：道路照明系统中，由于光源的失能眩光引起的能见度损失的测量。
- SR边缘比例：行车道边缘平均照度于行车道平均照度比值。

Cree LED in Streetlamp

Cree XLamp XML, XPG and XTE, XBD deliver high lumen output, high efficacy, good color quality as well as high reliability, which fit for various outdoor lighting application such as streetlamp, floodlight, pathway lighting and landscape lighting. They form a perfect choice for outdoor lighting application together with Arrow lighting LED driver and optical solution.

可用于路灯的科锐发光二极管

科锐公司提供高亮度，高光效，高质量及高可靠性的XML，XPG及 XTE，XBD LED，可多方面应用於户外照明，如路灯，泛光灯，庭园照明。如与艾睿 LED 驱动及光学方案一并应用更是一个户外照明方案的完美配合。

			XTE LED 			XP - G2 LED		
Color 颜色	CCT Range 色温范围		Base Order Codes Min Luminous Flux (lm) 最小光通量		Order Code 订购料号	Base Order Codes Min Luminous Flux (lm) 最小光通量		Order Code 订购料号
	Min.	Max.	Group	Flux (lm)		Group	Flux (lm)	
Cool White 冷白	5,000 K	10,000 K	R3	122	XTEAWT-00-0000-000000F51	R3	122	XPGBWT-L1-0000-00F51
			R4	130	XTEAWT-00-0000-000000G51	R4	130	XPGBWT-L1-0000-00G51
			R5	139	XTEAWT-00-0000-000000H51	R5	139	XPGBWT-L1-0000-00H51
Outdoor White 户外白	4,000 K	5,300 K	R3	122	XTEAWT-00-0000-000000FE3	R2	114	XPGBWT-01-0000-00EC2
			R4	130	XTEAWT-00-0000-000000GE3	R3	122	XPGBWT-01-0000-00FC2
			R5	139	XTEAWT-00-0000-000000HE3	R4	130	XPGBWT-01-0000-00GC2
Neutral White 中性白	3,700 K	5,000 K	Q5	107	XTEAWT-00-0000-00000LFE4	Q5	107	XPGBWT-L1-0000-00DE4
			R2	114	XTEAWT-00-0000-00000LEE4	R2	114	XPGBWT-L1-0000-00EE4
			R3	122	XTEAWT-00-0000-00000LDE3	R3	122	XPGBWT-L1-0000-00FE4
Warm White 暖白	2,600 K	3,700 K	Q3	93.9	XTEAWT-00-0000-00000LBE7	Q4	100	XPGBWT-L1-0000-00CE7
			Q4	100	XTEAWT-00-0000-00000LCE7	Q5	114	XPGBWT-L1-0000-00DE7
			Q5	107	XTEAWT-00-0000-00000LDE7	R2	122	XPGBWT-L1-0000-00EE7
						R3	122	XPGBWT-L1-0000-00FE7

Arrow Lighting Application Soluion — Street Lamp LED Driver & Optical Design
艾睿照明应用方案 — 路灯驱动及光学方案

Description

LED driver is one of the key parts in street lamp lighting design. It performs constant current control, protection and power conversion for the LED. To design a reliable and long life LED driver, some of the design criteria needs to be considered and are shown as follow:

描述

LED 驱动是路灯照明设计的关键部分之一，LED 驱动實施LED的恒流控制，保护功能和AC/DC转换。为了设计一个可靠的，寿命长的LED 驱动，必须考虑一些设计标准，下面将介绍这些标准：

Outdoor product qualification 室外照明防水防尘等级 : IP64 or above 或以上
EMI 电磁干扰 : EN55015 Class B
Power Factor and Harmonics 功率因数和谐波 : IEC1000-3-2 Class C
Protection of Lighting Strokes 雷击保护 : IEC1000-4-5
Operating Temperature 操作温度 : -20°C to 50°C
Energy Star life time (outdoor) 能源之星寿命要求(戶外) : 35000 hrs
Lighting Fixture Safety 照明设备安全等级 : IEC60598 Class 1, 2 and 3

Suppliers 供应商

AC/DC Driver IC Solutions AC/DC驱动IC解决方案

	NXP SSL4120	TI UCC28811+UCC25710	ST L6599+L6562(PFC)	ON Semi NCL30051
Peak Power 最大功率	400W	200W	130W	300W
Topology 拓扑结构	resonant controller with PFC	PFC+Half bridge/ LLC	PFC+Half bridge/ LLC	Flyback (PFC Single Stage)
I/P Voltage 电压范围	90V to 305V	85-264V (伏)	90-264V (伏)	85-277V (伏)
Est Efficiency 最高效率	93% or above	94%	92% or above	88% or above
EMI 电磁干扰	EN55015 Class B	EN55015 Class B	EN55015 Class B	EN55015 Class B
PFC 功率因数	PF>0.97	PF>0.9	PF>0.9	PF>0.9

LED Constant Current Devices LED恒流器件

	Constant Current Regulator 恒流调整器		Current Equalizer 均流器	DCDC Module DCDC模块
	Onsemi NSI 450XXX	Infineon BCR4XXX	TI LM3466	RECOM RCD-24/48
CC Range 恒流范围	20mA ~150mA	10mA ~ 150mA	1.5A max	300mA ~ 1.2mA
Typic Vf 典型正向压降	1.8V	1.2 ~ 1.4	0.5Ω x If	/
Maximum Voltage 最大电压	45V	40V	70V	60V
Primary Input Mode 输入模式	CC/CV 恒流/恒压	CC/CV 恒流/恒压	CC 恒流	CV 恒压
Advantage 优点	Easy to use, economical, voltage surge suppressing, no EMI 容易使用、便宜、保护LED、无EMI	Easy to use, economical, voltage surge suppressing, no EMI 容易使用、便宜、保护LED、无EMI	High efficiency, easy to use, no EMI, ±1% current accuracy 高效率、容易使用、恒流精度高、无EMI	High efficiency(up to 96%), easy to use, ±3% current accuracy 高效率、容易使用、恒流精度高
Disadvantage 缺点	Low efficiency 效率较低	Low efficiency 效率较低	High cost 成本较高	High cost, EMI issue 成本较高，EMI问题
Type 类型	Linear	Linear	Linear	Buck Boost
Package 封装	SOD-123, SOT-223, D-PAK, SC-74	SOT-223, SOT-343, SC-74	PSOP-8	SMD, DIP, Wire
Product Picture 产品图				

		Recom RACD100-48	Recom RACD150-48	Moons MU100A070AQ	Moons MU150A070AQ
Power 功率		100W	150W	100W	150W
Input Voltage 输入电压		90-305 Vac	90-305 Vac	90-305 Vac	90-305 Vac
CC	Constant Current 恒流	2.1A	3.2A	0.7A	0.7A
	Voltage Range 电压范围	34-48 VDC	34-48 VDC	86-143 VDC	128-214VDC
CV	Constant Voltage 恒压	48VDC	48VDC	N/A	N/A
	Current Range 电流范围	0-2.1A	0-3.2A	N/A	N/A
Typ. Efficiency 效率		91%	90%	91%	92%
PFC (230VAC)		>0.95	>0.95	0.99 (typ)	0.99 (typ)
Certificate 认证		UL 8750, EN 61347	UL 8750, EN 61347	UL8750,UL1012,CSA-C22.2 NO.107.1, IEC61347-1, IEC61347-2-13	UL8750,UL1012,CSA-C22.2 NO.107.1, IEC61347-1, IEC61347-2-13
Dimension 尺寸		222x68x39 (mm)	222x68x39 (mm)	221x67.5x37 (mm)	205x86.5x43 (mm)

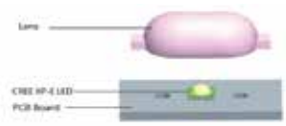
Ledlink Lens

Arrow lighting provides lens and optics solutions on street lamp application. ARR1-R85135-L1 is a lens for street lamp application which is high efficiency, asymmetrical beam pattern and optimized with uniform effects. It generates 85x135 degree of viewing angle which is suitable for streetlighting/outdoor lighting application.

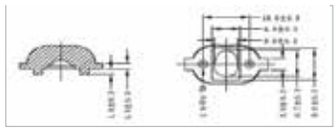
雷笛克光学透镜

艾睿照明提供路灯照明应用的光学透镜，ARR1-R85135-L1是由雷笛克光学设计的路灯透钟，可提供 85X135 度的照度，良好的均匀度，高光效及不对称光束光速设计十分适合应用在路灯及室外照明。

Outlook 外观



Dimension 尺寸



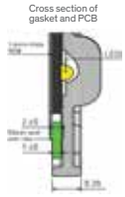
Beam Pattern 光斑

LEDiL Lens

LEDiL's newest STRADA street lighting optic is designed for peak optical performance, ease of installation and protection from dirt and water. STRADA-IP-2X6-DWC is a precision-engineered 12-position lens array with a tilted beam to direct light efficiently to the roadway surface. The integral silicone gasket protects up to IP67. The wide, asymmetric beam allows for rapid development of luminaires classified as IESNA Type II and III and related European and Russian street lighting classes.

LEDiL 光学透镜

LEDIL的最新STRADA街灯光学组件性能优越，而且安装简便和可防尘防水。STRADA-IP-2X6-DWC 是一个经精心设计的12位置镜片阵列，具备下斜光束可有效地把光线照到街道的地面上，其一体化的硅垫片达到IP67的保护程度，而宽阔及不对称的光束有利于关发IESNA第二及第三类，以及用于欧洲和俄罗斯街道的照明设备。



Arrow Lighting Application Solution | A19 LED Bulb with wireless application
艾睿照明应用方案 | A19 LED 及无线连接应用

Description

A bulb lamp is widely used in indoor lighting. The advantages of LED bulb are long life-span, high efficacy, without flicker, safety and environmental friendly. It is the retrofit of CFL of incandescent lamp. Arrow lighting offers LED A19 bulb solution at various power rating as well as lumen output for different applications.

描述

球泡灯广泛使用于室内照明。LED球泡灯具有寿命长、光效高、无闪烁，安全环保等优点。是替换节能灯、白炽灯的更新换代产品。艾睿提供不同种类及流明输出的 LED A19 球泡灯解决方案，适合不同应用的需要。

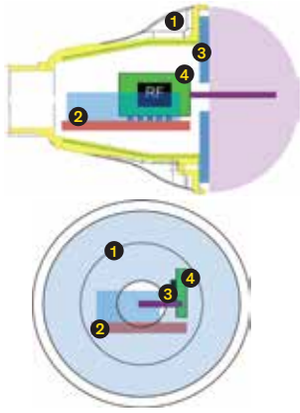
Suppliers 供应商

Applications

- Indoor lighting
- Hospitality lighting
- Commerical lighting
- Others

应用

- 室内照明
- 酒店照明
- 商业照明
- 其他



1. HFG65E27W6 – heat sink
2. LED driver module (8W)
3. LED aluminum based PCB board (7W)
4. RF module with antenna

Specifications 规格

	35 Incandescent Replacement	40 Incandescent Replacement	60 Incandescent Replacement	75 Incandescent Replacement
Luminous Flux 光通量	325Lm	450Lm	800Lm	1,000Lm
System Power 系统电源	4.5W	6W	10W	10W
CCT 色温	2,700K~6,500K	2,700K~6,500K	2,700K~6,500K	2,700K~6,500K
CRI 色温和显色指数	80 typ.	80 typ.	80 typ.	85 typ.
System Efficacy 系统的效能	70Lm/W typ	75Lm/W typ.	80Lm/W typ.	100Lm/W typ.
Power Factor 功率因数	0.9 typ.	0.9 typ.	0.9 typ.	0.9 typ.
Safety and EMI 安全和EMI	IEC60598 compatible	IEC60598 compatible	IEC60598 compatible	IEC60598 compatible
Others 其他	25,000hrs operating life time	25,000hrs operating life time	25,000hrs operating life time	25,000hrs operating life time

AC/DC Driver IC Solutions AC/DC 驱动IC解决方案

Part No. 型号	NXP SSL2109	NXP SSL2108X	TI TPS92210	TI TPS92314	TI UCC28811	ISSI IS31LT3916	ISSI IS31LT3935
Peak Power 最大功率	User defined	up to 25W	7W - 50W	16W	User defined	User defined	up to 25W
Topology 拓扑结构	Buck / Boost / Flyback	Flyback / Buck	PFC+Flyback	PFC with Primary Feedback	Flyback	PFC+Flyback/Buck	PFC+Flyback/Buck
Est Efficiency 最高效率	95% typ	90% typ	80% typ	86% typ	90% typ	90% typ	87% max
Built-in Dimming Control 内置调光控制	No	—	Triac Dimming	No	No	No	Triac Dimming

BOM 物料清单

Suppliers 供应商	P/N 型号	Description 描述
Driver Module	BLN03,BLN05,BLN07,BLN10 series	Adpower 3W,5W,7W,10W non-isolated driver module 安特源LED非隔离驱动
SAMSUNG	351B	SAMSUNG 5630 三星中功率LED
Everlight	62-217D, 67-21S	Everlight 5630,2835 亿光中功率LED

Arrow Lighting Application Solution | Downlight
艾睿照明应用方案 | 筒灯

Description

Downlight is widely used in commerical area, shopping mall, retail shop, restaurant, hotel, office, etc,. Current mainstream is CFL or HID MH. Moving forward to LED which brings a number of advantages including: longer life time, better light pattern, lower long term running cost and maintenance cost, higher CRI, more easy for smart control (on/off and dimming). Arrow provides comprehensive solution from 10W to 30W LED downlight inlcuding LED, optics, heatsink, LED driver IC, LED driver module and smart lighitng interface in order to provide you a cost effective and fast time-to-market solution.

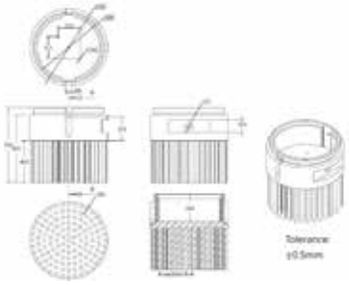
描述

筒灯被广泛应用于商业地方、购物商场、商店、餐厅、酒店及办公室等。目前主流虽仍然是HID氢或节能灯，但转用LED却有很多优点，包括操作寿命更长，输出光型更好，运作及维护成本更低，显色指数更高，更容易升级为智能照明。现时艾睿可为您提供高成本效益和加速产品上市的10W至30W的LED筒灯方案，包括LED、散热器、驱动IC或驱动模组及智能照明相关器件。

Suppliers 供应商

Applications 应用

- Office - Conference Room 办公室 - 会议室
- Shopping Mall 购物商场
- Restaurant 餐厅
- Hotel 酒店
- Retail Shop 商店



Specifications 规格

Part No. 型号	10W (CXA1507)	20W (CXA1816)	30W (CXA2520)
Luminuous Flux 光通量	870Lm	1,650Lm	2,500Lm
System Power 系统电源	10W	20W	30W
CCT 色温	3000K	3000K	3000K
CRI 色温和显色指数	>80	>80	>80
System Efficacy 系统的效能	>80Lm/W	>80Lm/W	>85Lm/W

AC/DC Driver IC Solutions AC/DC 驱动IC解决方案

Part No. 型号	NXP SSL2109A	NXP SSL2129A	TI UCC28811	TI TPS99210	ST STLUX385A	Onsemi NCP1607
Peak Power 最大功率	50W	50W	50W	50W	50W	50W
Topology 拓扑结构	Buck/Boost/Flyback	Buck/Flyback	Flyback	PFC+Flyback	Flyback	Boost/Flyback
Est Efficiency 最高效率	95%	95%	90%	80%	90%	87%
Built-in Dimming Control 内置调光控制	PWM by ext. circuit, Compatible with NXP LightPro smart lighting platform	Triac Dimming Compatible	PWM by ext. circuit	Triac Dimming Compatible	DALI/PWM/Analog (Built-in MCU fx)	PWM by ext. circuit

AC/DC Driver Module Solutions AC/DC 驱动模组解决方案

Part No. 型号	MOONS PU040 series	AD POWER HLP050 series	RECOM RACD Series	Artesyn LDS 70W	SHINRY LQC series	SELF SLT 20W series
Peak Power 最大功率	40W	50W	30W	70W	20W	20W
Certificates 认证	UL / CE	UL / CE	UL / CE	TBA	TBA	TBA
Est Efficiency 最高效率	90% typ.	90% typ.	85% typ.	85% typ.	85% typ.	TBA
Built-in Dimming Control 内置调光控制	0 - 10V	0 - 10V / PWM	TBA	TBA	TBA	TBA
Warranty 质保期	5 yrs	TBA	5 yrs	TBA	TBA	TBA

Arrow Lighting Application Solution | High Bay
艾睿照明应用方案 | 工矿灯

Suppliers 供应商

CREE, NXP, Texas Instruments Authorized Distributor, Infineon, AD Power, MOONS' moving in better ways, RAYBEN 樂健集團, ON Semiconductor, ST life.augmented

Applications 应用

- Warehouse lighting 仓库照明
- Garage 车库
- Factory lighting 工厂照明
- Others 其他

Description

High Bay light is widely used in warehouse, industrial plant, car park, etc. Current mainstream is still HID MH or linear fluorescent lamp. Moving to LED have a number of advantages includes, longer life time, instant on/off, no re-strike time and no UV, no mercury. Arrow provides full solution for 150W LED high bay to replace 250W HID lamp including LED, MCPCB, Heatsink, drivers and reflectors, provide you a cost effective, fast time-to-market solution.

描述

高棚灯被广泛应用于货仓、工厂、停车场等地方，而目前的主流虽仍然是 HID MH 或线性荧光灯，但转用 LED 却有很多优点，包括操作寿命更长、实时开/关、无重燃时间、无紫外线和不含水银。现时艾睿可为您提供高成本效益和加速产品上市的完整 150W LED 棚灯解方案，以便取代 250W 的 HID 灯，方案中包括 LED、MCPCB、散热器、驱动器和反光罩。

Specifications 规格

	50W	100W	150W	90W (COB)	210W (COB)
Luminuous Flux 光通量	4,500Lm	8,700Lm	12,000Lm	7,000Lm	16,400Lm
System Power 系统电源	50W	100W	150W	90W	210W
CCT 色温	5700K typ	5700K typ	5700K typ	5700K typ	5700K typ
CRI 色温和显色指数	65 typ	65 typ	65 typ	Min. 80	Min. 80
System Efficacy 系统的效能	83Lm/W above	83Lm/W above	83Lm/W above	80Lm/W above	78Lm/W above
Power Factor 功率因数	0.9 or above	0.9 or above	0.9 or above	0.9 or above	0.9 or above
Safety and EMI 安全和EMI	UL8750 UL1310/UL1012 IEC61347-1 IEC61347-2-13 EN55015 B	UL8750 UL1012 CSA-C22.2 No. 107.1 IEC61347-1 IEC61347-2-13 EN55015 B	UL8750 UL1012 CSA-C22.2 No. 107.1 IEC61347-1 IEC61347-2-13 EN55015 B	UL8750 UL1012 CSA-C22.2 No. 107.1 IEC61347-1 IEC61347-2-13 EN55015 B	UL8750 UL1012 CSA-C22.2 No. 107.1 IEC61347-1 IEC61347-2-13 EN55015 B
Others 其他	35000hrs operating life time	35000hrs operating life time	35000hrs operating life time	35000hrs operating life time	35000hrs operating life time

AC/DC Driver IC Solutions AC/DC 驱动 IC解决方案

Part No. 型号	NXP SSL4101	NXP SSL4120	TI UCC25710	TI UCC28811	ON Semi NCP1652	Infineon ICE2HS01G	ST L6562+L6599
Peak Power 最大功率	300w	200w	200w	200w	250w	200W	130W
Topology 拓扑结构	PFC + Flyback (PFC Single Stage)	PFC + LLC Combo	LLC	Flyback	Flyback (PFC Single Stage)	Flyback	PFC+Half Bridge/ LLC
Est Efficiency 最高效率	88 typ	94% typ	90% typ	90% typ	85% typ	84% typ	95% typ
Built-in Dimming Control 内置调光控制	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit	No, require external Circuit

BOM Features 物料清单

	Suppliers 供应商	Part No. 型号	Description 描述
50W High bay	Cree	XMLAWT-xxxxx	HP LED
	Rayben	MHE301R13535X0911	MCPCB
	Moons/AD Power	AMU060-xxxxx/HLP050-xxxx	Driver Modules
100W High Bay	Cree	XMLAWT-xxxxx	HP LED
	Rayben	MHE301R15050X1611	MCPCB
	Moons/AD Power	AMU100-xxxxx/HLP100-xxxx	Driver Modules
150W High Bay	Cree	XMLAWT-xxxxx	HP LED
	Rayben	MHE301R16060X2422	MCPCB
	Moons/AD Power	AMU150-xxxxx/HLP150-xxxx	Driver Modules
90W (COB) High bay	Cree	CXA3050-xxxxx	COB LED
	Moons/AD Power	AMU200-xxxxx/HLP100-xxxx	Driver Modules
210W (COB) High bay	Cree	CXA3050-xxxxx	COB LED
	Moons/AD Power	AMU200-xxxxx/HLP200-xxxx	Driver Modules

Arrow Lighting Application Solution | T8 Tube
艾睿照明应用方案 | T8 光管

Description

T8 tube is widely used in commerical lighting and domestic lighting, however, traditional T8 tube has mercury which is harmful to our environment. Therefore, there is a trend to replace traditional fluroscent tube to LED light tube. Arrow lighting offers various products which fit into LED T8 product in different length and power rating.

描述

T8光管被广泛应用于商业照明和家用照明，可是传统的T8光管含有水银，因此对环保构成威胁。基于这个原因，现时出现一个用LED光管取代传统荧光灯管的趋势，而艾睿的LED T8光管款式齐备，有多种不同的长度和功率额定值供选择。

Suppliers 供应商

Applications 应用

- Tube lighting 灯管
- Panel lighting 面板灯
- Decorative and entertainment lighting 装饰及娱乐活动照明
- Commerical lighting 商业照明
- Domestic lighting 民用照明

Specifications 规格

	10W	20W
Luminuous Flux 光通量	1100Lm	2200Lm
System Power 系统电源	10W	20W
CCT 色温	5700K	5700K
CRI 色温和显色指数	>80Ra	>80Ra
System Efficacy 系统的效能	110Lm/W above	110Lm/W above
Power Factor 功率因数	0.9 or above	0.9 or above
Safety and EMI 安全和EMI	IEC60598/IEC62471 compatible	IEC60598/IEC62471 compatible
Others 其他	35000hrs operating life time	35000hrs operating life time

AC/DC Driver IC Solutions AC/DC 驱动IC解决方案

	NXP SSL5015	NXP SSL5018	NXP SSL2108	NXP SSL2109	TI UCC28811	TI TPS92314	ON Semi NCP1607	ST Viper15/25
Peak Power 最大功率	18W	18W	up to 25W	User defined	120W	16W	User defined	10W
Topology 拓扑结构	Flyback / Buck	Boost/ Flyback	Flyback / Buck	Buck / Boost / Flyback	Flyback	PFC with Primary feedback	Boost/ Flyback	Flyback
Est Efficiency 最高效率	90% typ	90% typ	90% typ	95% typ	90% typ	86% typ	82% typ	83% typ
Built-in Dimming Control 内置调光控制	No, require external circuit	No, require external circuit	No, require external circuit	No, require external circuit	No, require external circuit	No, require external circuit	No, require external circuit	No, require external circuit

BOM 物料清单

	Suppliers 供应商	Part No. 型号	Description 描述
10W 2" T8	Everlight	67-21S/KK2C-H5757M41N42936Z6/2T	Low Power 0.2W 60mA 5700K CRI>80 typ.25lm
	Osram	LUWJDSH.EC-FQFS-5C8E-1	5630 120ma CRI>85 6500K typ. 39lm
	AD Power	TLP 10 –xxx	Non-Isolated for T8. High efficiency 93%,APFC :0.95. CE UL TUV qualified.
		DLP12-xxxU	Isolated with Plastic case, suitable for T8. High efficiency 85% , universal AC input :90~305V , APFC:0.95 . CE UL TUV qualified.
20W 4" T8	Everlight	67-21S/KK2C-H5757M41N42936Z6/2T	Low Power 0.2W 60mA 5700K CRI>80 typ.25lm
	Osram	LUWJDSH.EC-FQFS-5C8E-1	5630 120ma CRI>85 6500K typ. 39lm
	Shinry	TLP 20 –xxx	Non-Isolated for T8. High efficiency 93%,APFC :0.95. CE UL TUV qualified.
		DLP18-xxxU	Isolated with Plastic case, suitable for T8 . High efficiency 85% , universal AC input :90~305V , APFC:0.95 . CE UL TUV qualified .

Arrow Lighting Application Solution | Wireless
艾睿照明应用方案 | 无线连接

Description

Arrow Lighting is providing Low Power Wireless Platforms to meet customers and market requirement including commercial lighting and residential lighting. Wireless Technologies include Bluetooth Low Energy (BLE), WiFi, Zigbee and Jennet IP. We are providing in house / 3rd parties hardware, firmware, software (iOS, Android) reference designs to help customers for time to market and flexibility for products differentiations.

描述

Arrow提供低功耗无线平台以满足客户和市场对商业照明和住宅照明的需求。无线平台的无线技术包括BLE、WiF、Zigbee和Jennet IP。通过自行设计及与第三方合作，Arrow可提供硬件、固件、软件(iOS,Android)参考设计，以帮助客户灵活选择差异化的产品并迅速推向市场。

Suppliers 供应商

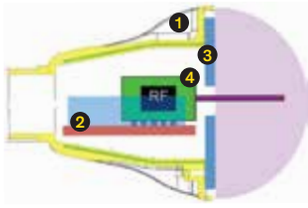
NXP · Texas Instruments Authorized Distributor · Qualcomm · Atmel · freescale · Silicon Labs

Features 应用

- ON/OFF control
  开关控制
- Dimming control
  调光控制
- Color temperature control
  色温控制
- Mood light control
  意境光控制
- Light/RH/T sensing
  亮度/湿度/温度 感应
- Parallel operation
  并联运行

WiFi / Zigbee gateway

RH/T sensor (WiFi)



WiFi / Zigbee / BLE bulb

Specifications 规格

Suppliers 供应商	NXP	TI	TI	Qualcomm	Atmel	Freescale	Silicon Labs
Wireless MCU Part No. 型号	JN516x	CC253x	CC254x	QCA400x	ATmega128/ 256xxx	MC132xxx/KW2x	EM35x
Component support 组件支持	Y	Y	Y	Y	Y	Y	Y
Module support 模块支持	Y	Y	Y	Y	Y	Y	Y
Protocol Stack 协议栈	Zigbee Pro / Jennet-IP	Zigbee Pro	BLE	WiFi (with Alljoyn support)	Zigbee Pro	Zigbee Pro	Zigbee Pro
Required Gateway 所需网关	Y	Y	No, direct connect	Y	Y	Y	Y
No. of node support 节点支持数量	100~200	100~200	4~6	30~50	100~200	100~200	100~200
Target Application 目标应用	• Remote Controls • Lighting & Home automation • Smart Energy	• Remote Controls • Lighting & Home automation • Smart Energy	•Remote Control, •Home Automation	• Smart home •Embedded wireless products •Industrial control	• Remote Controls • Lighting & Home automation • Smart Energy	•Remote Controls • Lighting & Home automation • Smart Energy	•Remote Controls • Lighting & Home automation • Smart Energy
Range (m) 范围	indoor:0~50; outdoor:0~80	indoor:0~50; outdoor:0~80	0~20	indoor:0~50; outdoor:0~100	indoor:0~50; outdoor:0~80	indoor:0~50; outdoor:0~80	indoor:0~50; outdoor:0~80
Network (mesh, star) 网络 (mesh, star)	Mesh	Mesh	Star	Star	Mesh	Mesh	Mesh
Operating Voltage 工作电压	2~3.6v	2~3.6v	2~3.6v	3.3v±10%	2.7~5.5v	2~3.6v	3.3v±10%
Power Consumption (active, TX/RX) 功耗 (Active, TX/RX)	17mA/15mA	CC2530:24/ 29mA;CC2538: 20/24mA	24mA/19.6mA	250mA&16dBm/ 190mA	12.5mA/14.5mA	MC132: 37mA/30mA; KW2X: 19mA/15mA	26mA/31mA
Power Consumption (standby/Deep sleep) 功耗 (Standby/Deep sleep)	6.4mA/0.1uA	CC2530:6.5mA/ 0.4uA;CC2538: 13mA/0.4uA	235uA/0.9uA	1.09mA/130uA	4.1mA/0.25uA	MC132: 6.5mA/1uA; KW2X: 17mA/1uA	7.5mA/0.4uA

SSL21082A/84A and SSL2129A

Part Number 型号

SSL21082A/84A
SSL2129A

Description

The SSL21082A/84A and SSL2129A compact best-in-class mains-dimmable SSL driver ICs deliver excellent efficiency and reduce system cost.

描述

SSL21082A/84A和SSL2129A可用于紧凑型市电调光LED驱动方案设计，并实现一流的调光性能，较高的效率，并节省系统成本。

Product Features

- Benchmark dimmer compatibility
- SSL21082A/84A, 300V/600V INT FET, <15W
- SSL2129A, Buck or Flyback controller-only IC
- Low LED driver eBOM cost
- High efficient, PF>0.9
- Easy to use, easy to manufacture

产品特性

- 业界领先的调光器兼容性
- SSL21082/4分别集成300V/600V开关管，可驱动至15W
- SSL2129A是控制器芯片，可支持降压或反激式结构
- 较低电路系统成本
- 高效率，高功率因数>0.9
- 设计方便，易于生产

Target Application

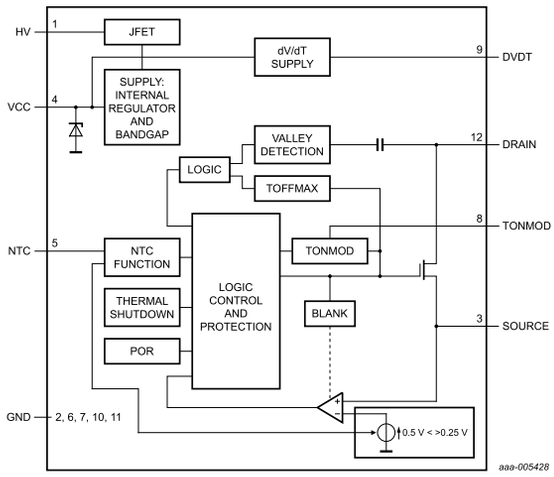
- Retrofit LED lamps
- Driver modules for LED lighting

应用目标

- 可替换式LED灯
- LED驱动模块

Product Features 产品特性

Part No. 型号	SSL2129ADB1101	SSL21082ADB1117
Output Channels 输出	12W	4.5W
Input Voltage 输入电压	230 V (AC) ± 10 %	120 V (AC) ± 10 %
Output Current 输出电流	240mA	105mA
Output Voltage 输出电压	40V	38V
Efficiency 效率	82%	81%
Dimming 调光	Phase cut	Phase cut
Certification 认证	Meets IEC55015	Meets IEC55015
Dimension 尺寸	63mm*34mm*25mm	23.5mm*32mm



SSL3401

Part Number 型号

SSL3401

Description

The SSL3401HN is a Switched Mode Power Supply (SMPS) controller IC. It operates in combination with a phase cut dimmer and a 12 V (AC or DC) low voltage electronic or magnetic transformer. It is designed to drive LED devices and include a dimmer conduction phase detector.

描述

SSL3401HN是一款开关电源控制芯片，可配合相位调光器和12V(交流或直流)电子变压器或电感变压器一起工作，用于驱动LED负载。

Product Features

- Benchmark dimmer and ET compatibility
- Single inductor 2-stage configuration
- <5% dimming
- Efficiency up to 75% / PF >0.9 / THD <15%
- Output current ripple <10%

产品特性

- 业界领先的调光器和电子变压器兼容性
- 单电感两级方案
- 调光深度可至5%以下
- 效率高于75%，PF值高于0.9，THD小于15%
- 输出电流纹波小于10%

Target Application

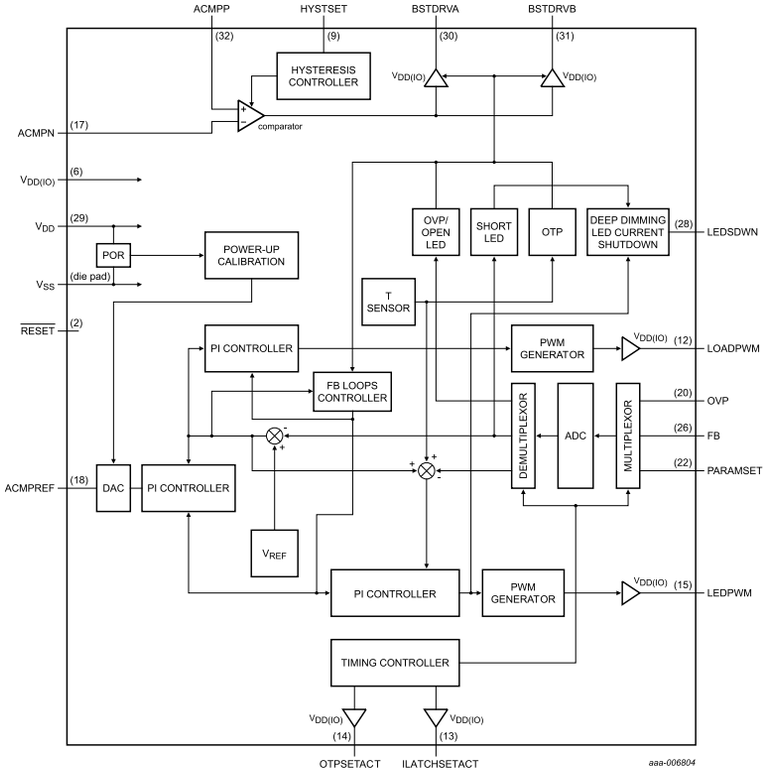
- Dimmable LED MR16/GU5.3 12V AC
- Dimmable LED AR111 12V AC

应用目标

- 可调光 12V MR16/GU5.3 LED灯
- 可调光 12V AR111 LED灯

Product Features 产品特性

Part No. 型号	SSL3401DB1174
Power 功率	7.5W
Input Voltage 输入电压	12 V (AC or DC)
Output Current 输出电流	200mA
Output Voltage 输出电压	24 to 30V
Efficiency 效率	>73%
Dimming 调光	Dimmer + ET
Dimension 尺寸	22mm



SSL5015/18

Part Number 型号

SSL5015/18

Description

The SSL5015/18 are high-voltage Integrated Circuit (IC) controllers with integrated MOSFETs for driving LED lamps in general mains non-dimmable lighting applications up to 18 W.

描述

SSL5015/18 集成高压 MOS，采用非隔离拓扑结构，可直接从市电驱动LED灯串，最高驱动18W。

Product Features

- High-eff (>90%) driver ICs with integrated MOSFET
- Low bill of material cost, Small PCB area
- Accurate LED current and line reg. <3%
- SSL5015/18 INT 300V/600V FET for 8-18W
- Power factor >0.7 or >0.9
- Full set of internal protections

产品特性

- 集成 MOSFET，高效率驱动 IC
- 低系统成本，节省 PCB 空间
- 小于 3% 的高电流精度
- SSL5015/18 分别集成 300V/600V MOS，可驱动 8-18W
- PF>0.7 或 PF>0.9 可选
- 完善的内部保护

Target Application

- Retrofit LED lamps
- LED Tube
- Driver modules for LED lighting

应用目标

- 可替换式 LED 光源
- LED 灯管
- LED 驱动模块

Product Features 产品特性

Part No. 型号	SSL5018DB1124	SSL5018DB1125	SSL5015DB1126	SSL5015DB1127
Power 功率	18W	9W	18W	9W
Input Voltage 输入电压	230 V (AC) ± 10 %	230 V (AC) ± 10 %	120 V (AC) ± 10 %	120 V (AC) ± 10 %
Output Current 输出电流	230mA	230mA	230mA	230mA
Output Voltage 输出电压	50 to 80V	30 to 40V	50 to 80V	30 to 40V
Efficiency 效率	91%	89%	91.5%	90%
Dimming 调光	PWM interface	PWM interface	PWM interface	PWM interface
Certification 认证	Meets IEC55015	Meets IEC55015	Meets IEC55015	Meets IEC55015
Dimension 尺寸	140mm*15mm	24mm*43mm	140mm*15mm	24mm*43mm

SSL4120

Part Number 型号

SSL4120

Description

This Greenchip solution, combining a PFC and an HBC, delivers high efficiency (>93%), low THD (<10%), and high PF (>0.97) in high-power LED applications from 75 to 400 W.

描述

该款Greenchip解决方案，可用于75W至400W的大功率LED驱动应用，集成功率因素校正和半桥控制功能，可实现效率高于93%，THD小于10%，且PF值高于0.97。

Product Features

- Integrated PFC and half bridge controller
- High efficient >93% , Low THD (<10%) and high PF (>0.97)
- Robust cost-effective design, fully protected
- CCM and CVM outputs
- Universal mains operation 90V to 305V
- Compact design

产品特性

- 集成功率因数校正和半桥控制功能
- 效率高于93%，THD小于10%，PF值高于0.97
- 高性价比设计，保护齐全
- 可实现恒电压和恒电流输出
- 全电压工作范围 90V 至 305V
- 方案设计紧凑

Target Application

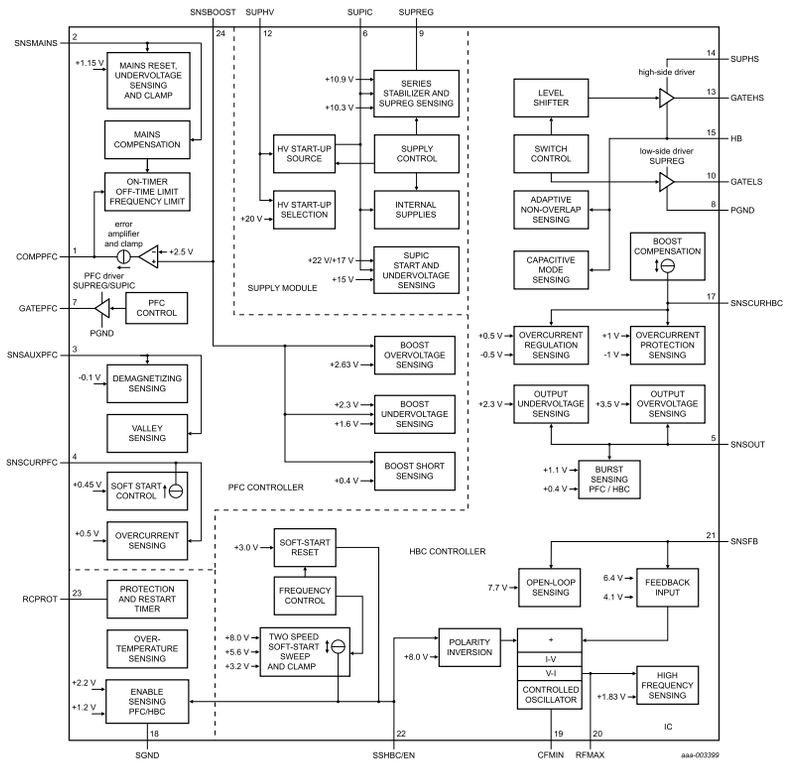
- Indoor and outdoor high-power LED lighting
- Office panel lighting
- High-bay and low-bay lighting
- Parking garages and area lighting
- Street lighting

应用目标

- 户内和户外大功率LED照明
- 面板灯
- 高湾和低湾灯
- 停车场和区域照明
- 路灯

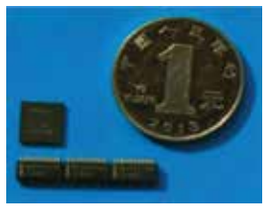
Product Features 产品特性

Part No. 型号	SSL4120DB1091
Power 功率	90W
Input Voltage 输入电压	90 V (AC) to 300 V (AC)
Output Current 输出电流	1.5A
Output Voltage 输出电压	35V to 60V
Efficiency 效率	93%
Dimming 调光	1 to 10V interface
Certification 认证	Meets IEC55015



48 channels, 16-Bit ES-PWM LED driver with Pre-charge FET, LED open detection and display memory support 32-multiplexing

带有预充电 FET，LED 开路检测和最大支持32扫内存的48通道16比特 ES-PWM LED 驱动器



Part Number 型号

TLC5958

Description

TLC5958 is a 48 channels constant-current sink driver for multiplexing system with 1 to 32 duty ratio. Each channel has an individually-adjustable, 65536-step, pulse width modulation (PWM) grayscale (GS).48K bit display memory is implemented to increase the visual refresh rate and to decrease the GS data writing frequency. The output channels are grouped into three groups, each group has 16 channels and 512-step color brightness control function.

描述

TLC5958是一个支持1至32扫用于扫描屏的48通道恒流驱动器。每个通道都有一个可单独调节，有65536步长的PWM灰度数据寄存器。芯片内设置有48k比特的显示寄存器，可以提高虚拟刷新率，并减少灰度数据的存写次数。芯片的输出通道被分为三组，每一组拥有16个通道，且都可以进行全局亮度调整，步长为512。

Product Features

- 16bit PWM constant-current with 3x9bit CC and 3bit BC supporting 1-25mA
- 48Kbit SRAM supporting 32-multiplexing
- Precise constant curent regulation: C2C: +-1%, D2D: +-1%
- Low grayscale enhancement
- Pre-charge FET for ghost cancelling
- LED open detection and power save mode

产品特性

- 支持1-25mA，拥有全局亮度调整的16比特 PWM 恒流驱动
- 内置48K SRAM，最大支持32扫
- 较高的恒流精度：通道精度+-1%，片片精度+-1%
- 较好的低灰特性
- 内置预充电电路，可以消除鬼影现象
- 内置 LED 开路检测电路和省电模式

Target Application

- LED video displays
- Cinema video displays
- LED illuminations

应用目标

- LED 视频显示
- 电影院视频播放
- LED 照明应用

Product Features 产品特性

Part No. 型号	TLC5958	TLC5954	TLC5955	TLC59283	TLC59482
Output Channels 输出	48 ch	48 ch	48 ch	16 ch	16 ch
Output Voltage 输出电压	1~20mA @3.3Vcc 1~25mA @5Vcc	1~35mA @3.3Vcc	1~23.9mA @3.3Vcc 1~31.9mA @5Vcc	2~35mA @3.3Vcc 2~45mA @5Vcc	1~35mA @3.3Vcc 1~45mA @5Vcc
Grayscale clock 灰度时钟	33M	-	33M	-	33M
C-C mismatch 通道间误差	+-1%	+-1%	+-2%	+-1.4%	+-1%
D-D mismatch 片片误差	+-1%	+-1%	+-2%	+-2%	+-2%
Knee voltage 转折点电压	0.32V @ 10mA	0.28V @ 10mA	0.22V @ 10mA	0.40V @ 10mA	0.40V @ 10mA
Driver Type 驱动类型	PWM driver	ON/OFF driver	PWM driver	ON/OFF driver	PWM driver
Dot Correction 逐点检测	No	No	Yes	No	No
Pre-charge FET 预充电 FET	Yes	No	No	Yes	No
LED open detect 开路检测	Yes	Yes	Yes	Yes	No

TPS92411 Floating Switch for offline AC linear direct drive of LEDs with low ripple current

TPS92411 用于离线 LED 驱动器的开关控制直接驱动开关

Part Number 型号

TPS92411

Description

The TPS92411 is a 100-V floating MOSFET switch for use in offline LED lighting applications. It is used in conjunction with a current regulator that can achieve greater than 0.9 power factor to create a LED driver solution with low-ripple current. The appraoch requires no inductive components saving size and cost. Slew controlled low frequency operation of the TPS92411 switches creates very little EMI.

描述

TPS92411是一款在离线LED照明应用中使用的100V浮动MOSFET开关。它与能够实现大于0.9功率因数的电流稳压器一同使用，以生成具有低纹波电流的LED驱动解决方案。当设计正确时，解决方案性能与基于传统反激式、降压或升压的交流/直流LED驱动器相类似。此方法无需电感组件，从而减小了尺寸并节约了成本。TPS92411 开关的转换受控低频运行生成很小的 EMI。

Product Features

- High-performance solution for driving LEDs from AC Mains
- Simple design of phase dimmable LED driver with high PF, low THD and low current ripple
- Input voltage range: 7.5 V to 100 V
- Controlled switch open and close transitions minimize EMI
- Input undervoltage protection
- Low Iq: 200uA (typ)

产品特性

- 针对由交流主电源驱动的 LED 的高性能解决方案
- 用高功率因数、低总谐波失真和低电流纹波简化相位可调光 LED 驱动器的设计
- 输入电压范围：7.5V 至100V
- 受控开关打开和关闭转换最大限度地减少了电磁干扰(EMI)
- 输入欠压保护
- 低 Iq：200μA(典型值)

Target Application

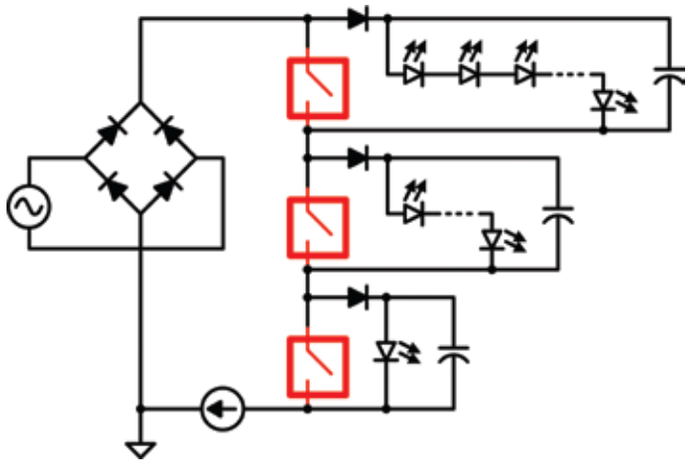
- LED lamps and light bulbs
- LED luminaires
- Downlights

应用目标

- LED 灯和灯泡
- LED 光源
- 射灯

Product Features 产品特性

Part No. 型号	TPS92411
Power 功率	<= 40W / <= 70W
Input Voltage 输入电压	120V / 230V
Output Current 输出电流	350mA
Output Voltage 输出电压	140V / 280V
Efficiency 效率	83% / 80%
Dimming 调光	Yes



CapSense MBR3 Touch Sensing Controllers
CapSense MBR3 触摸感应控制器

Description

CapSense® MBR3 is Cypress's solution for quickly and easily replacing mechanical buttons with sleek and reliable capacitive-sensing user interfaces. It is the world's easiest capacitive-sensing solution that allows you the design with the click of a mouse using our GUI-based software tool, EZ-Click™. CapSense MBR3 combines features including SmartSense™ Auto-Tuning, robust water tolerance and best-in-class proximity sensing while delivering reliable performance under all conditions

描述

CapSense® MBR3 是赛普拉斯专为以漂亮可靠的电容式触控用户界面快速便捷地替代机械按键而推出的解决方案。它是全球最易用的电容式触控解决方案，您只需在基于图形用户界面 (GUI) 的 EZ-Click™ 软件工具中点击鼠标即可完成设计。CapSense MBR3 拥有 SmartSense™ 自动调校、超强防水和业界最佳的接近感应功能，同时在各种条件下具有可靠的运行性能。

Product Features

- Easiest-to-design, no coding or firmware development
- SmartSense Auto-Tuning
- Robust Water Tolerance
- Industry's Best Capacitive Proximity Sensing
- Reliable Performance

产品特性

- 方便设计，无需写代码或开发固件
- SmartSense 自动调校
- 强大的防水功能
- 业界最佳的电容式接近感应
- 可靠的性能

Target Application

- LED Dimming buttons/sliders
- White goods
- Small home appliances
- Mobile phones, tablets
- Keypads, medical equipment
- Industrial control panels
- Elevator controls
- TVs, monitors
- Music players

应用目标

- LED 调光按钮/滑条
- 白色家电
- 小家电
- 手机、平板电脑
- 键盘、医疗设备
- 工业控制面板
- 电梯控制
- 电视、监视器
- 音乐播放器

MPN 型号	Package 封装	CapSense Sensors CapSense传感器	GPOs	Slider Capability 滑条支持	Proximity Sensors 接近传感器	Communication Interface 通讯接口	Buzzer 蜂鸣器
CY8CMBR3002-SX1I	8-SOIC	2	2	N	0	GPO	N
CY8CMBR3102-SX1I	8-SOIC	2	1	N	2	I2C	N
CY8CMBR3108-LQXI	16-QFN	8	4	N	2	I2C	Y
CY8CMBR3110-SX2I	16-SOIC	10	5	N	2	I2C	Y
CY8CMBR3106S-LQXI	24-QFN	11	0	Y	2	I2C	Y
CY8CMBR3116-LQXI	24-QFN	16	8	N	2	I2C	Y

ChromaLit™ Remote Phosphor
ChromaLit™ 远程荧光粉产品

Description

ChromaLit leverages a phosphor composite precisely layered onto a substrate, separated from the Royal Blue LED energy source. The independent phosphor emits light when excited by Royal Blue light. Because the phosphor has been separated from the energy source and can now be made in any shape and any color, unidirectional light, hot spots, inconsistency and design limitations are no longer SSL challenges.

The ChromaLit family offers several standard options in optimal shapes for a wide range of lighting applications. Below are some of the standard product offerings we currently stock. Please contact a local representative for more details concerning the other offerings not listed below.

描述

ChromaLit 能让萤光粉精确地附合在基质平面上，和宝蓝光源保持适当距离。独立的萤光粉能透过宝蓝光源发出光线，令远程萤光粉可以更有弹性的塑造成任何形状或任何不同的色温。让所有以往在半导体照明的设计困难如色温不一致，刺眼光点等问题得以彻底解决。

ChromaLit 系列提供不同的标准产品给各种不同的灯饰设计，充足现货供不同选择。如有任何问题关於以下产品，请联络我们在各地的营业代表。

Product Features 产品特性

ChromaLit Linear	
Length / Width (mm) 長/闊 (mm)	1220 x 20
Typical Lumen Range (lm) 流明 (lm)	1200 - 1250
CCT(K) Range 色温 (K)	3000 - 5000
CRI 显色指数	80, 90

ChromaLit XT			
Shapes 形状	Round 圆形	Square 方形	Linear 线条形
Diameter / Dimension (mm) 尺寸 (mm) Length / Width (mm) 長/闊 (mm)	22.5 - 100	65 x 65, 95 x 95	152.5 x 22.5
Lumen Range (lm) 流明 (lm)	400-8000	3000, 7000	4000
CCT(K) Range 色温 (K)	2700-5000	2700-5000	2700-5000
CRI 显色指数	70, 80, 90	70, 80, 90	70, 80, 90

ChromaLit 360			
Shapes 形状	Ellipse 椭圆形	Candle 烛光形	Dome 圆顶形
Diameter / Dimension (mm) 直径 (mm) Length / Width (mm) 長/闊 (mm)	17.2 - 26.3	11.9 - 26.6	14-55
Height Range (mm) 高度范围 (mm)	26.4 - 40.4	16 - 35	13.8 - 34.1
CCT(K) Range 色温 (K)	2700-5000	2700-5000	2700-5000
CRI 显色指数	70, 80, 90	70, 80, 90	70, 80, 90

ChromaLit				
Shapes 形状	Round 圆形	Square 方形	Linear 线条形	Panel 平板形
Diameter / Dimension (mm) 直径 (mm) Length / Width (mm) 長/闊 (mm)	22.5 - 215	21 x 21 - 200 x 200	305 x 22.5, 305 x 12.5	305 x 215
Lumen Range (lm) 流明 (lm)	110-16500	110-16500	950-2400	15000-27500
CCT(K) Range 色温 (K)	2700-5000	2700-5000	2700-5000	2700-5000
CRI 显色指数	70, 80, 90	70, 80, 90	70, 80	70, 80, 90

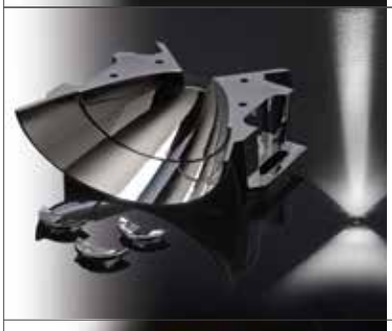
LEDiL

The Leading Edge of New Technology
新技术的前沿

Description
- Widest selection of standard optics
- Asymmetric optics
- Custom lenses and arrays
- Application engineering and simulation support
- Online tools — photometric files/distributor inventory
- Global manufacturing and sales
- Optics optimized for a broad-range of LEDs

描述
- 标准光学元件的最广泛选择
- 非对称光学
- 订制透镜和透镜组
- 工程应用和模拟支持
- 在线工具 – 光学文件/分销商库存
- 全球化生产和销售
- 针对不同范围的LED光学优化

Product Features 产品特性

	Description	描述
	Optical Solutions Over 5000 symmetric and asymmetric solutions – round, square, rectangular and free-form shapes in single through 25-up arrays (VIRPI). From 9.9 mm (LISA2) to 120 mm (ANGELA) outer dimensions, optimized to perform with mid-power LEDs to COB arrays from Cree and Osram. Including reflector systems designed to be compatible with a range of Zhaga compliant solderless connectors.	**光学解决方案** 超过5000种的对称和非对称解决方案 - 圆形、正方形、长方形和通过单一的透镜25方位排列取得的任意形状的光。外形尺寸从直径9.9mm (LISA2)到直径120mm(ANGELA)，优化执行从中功率LEDs到COB阵列从Cree到Osram。我们最新的反射器是被设计的能够与Zhaga规定范围内的无焊连接器兼容的产品。
	**Asymmetric and Specialty Optics** LEDiL's large range of asymmetric lenses and reflectors direct light precisely where needed - STRADA optics illuminate roadways – SHELLY and ZENIA lenses for display and shelf lighting - RITA-A asymmetric rectangular and BLONDIE's very tight blade-type beams are ideal for architectural lighting – New ANGELETTE and BILLIE-B for wall-washing architectural applications.	**非对称透镜及特种光学的选择** 如果需要把光直射到指定位置，LEDiL可以提供范围广泛的基于非对称要求的透镜和反射器多种解决方案。比如: Strada 系列可用作道路照明，Shelly和Zenia是专为橱窗和货架展示照明研发的，而Rita-A的非对称矩形设计和Blondie紧凑透直的刃形光束效果则是建筑照明的理想选择，新研发的ANGELETTE及BILLIE-B则可应用于洗墙照明。
	Colour mixing technology LEDiL, the premier developer of innovative optics introduces a new RZ colour mixing surface technology. This new mixing surface can be implemented on lenses and reflector front-lenses. The result is a pleasant and soft colour mix or shades of white without sacrificing optical efficiency.	**混色技术** 作为创新光学系统的引领者，LEDiL新引入了RZ表面混色技术。这项技术在透镜或反射器的前镜头上都能得以实施应用。它能在不损耗光学效率的条件下带给你愉悦而柔和的色彩和色调的体验。

Listening to customer needs — designing to meet them — learning by doing — LEDiL brings brilliant solutions to customers all over the world.
倾听客户需求 - 设计产品来满足客户 - 边做边学 - LEDiL 给全世界的客户带来卓越的方案。

Lens / Optics
透镜 / 光学

Single Lens 单个LED

LL01CR-BGS24L06
DxH(mm) 34x15
FWHM 24°
For Cree CXA1507

LL01NI-BLL170L06
DxH(mm) 18x5.35
FWHM 160°
For Cree XPG2

LL01CR-AVC60L06
DxH(mm) 28.8x15.95
Full angle 60°
For Cree XPG

LL01OS-BFV25L06
DxH(mm) 20.8x12.35
Full angle 25°
For Cree XPG

LL01CR-BLU03L06
DxH(mm) 35X20.8
FWHM 3°
For Cree XPE2

LL01SP-AVA40L06
DxH(mm) 42x9.55
FWHM 40°
For Cree CXA 1507

COB Solution / COB系列产品

LL01CR-AYGxxR49
DxH(mm) 75 x 45
InterfaceΦ(mm) 20
FWHM 15° 24° 38°
For Cree CXA15xx
Material: Aluminum

LL01CR-AYMxxR35-P
DxH(mm) 90 x 50
InterfaceΦ(mm) 27
FWHM 15° 24° 38°
For Cree CXA25xx
Material: Plastic Plating

LL0CT-AZWxxL02-P
DxH(mm) 76.1 x 12.7
FWHM 24° 38°
For Cree CXA15xx

LL01CT-AYTxxR35-P
DxH(mm) 75 x 45
InterfaceΦ(mm) 23
FWHM 15° 24° 38°
For Cree CXA15xx/25xx
Material: Plastic Plating

LL01CT-AZNxxL02-P
DxH(mm) 88.5 x 15
FWHM 24° 38°
For Cree CXA25xx

LL01CT-AYXxxR35-P
DxH(mm) 90 x 50
InterfaceΦ(mm) 29
FWHM 15° 24° 38°
For Cree CXA25xx
Material: Plastic Plating

LedLink
Linking LEDs to The Real World

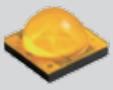
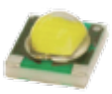
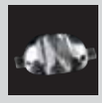
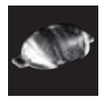
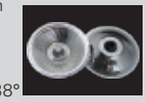
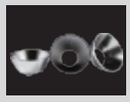
Lens / Optics
透镜 / 光学

Products by Application Categories

- Retrofit lighting application
- Stage lighting
- Torch
- Light bar
- Large area optic for street lamp
- Tunnel lighting

产品应用

- 传统灯泡替
- 舞台照明
- 手电筒
- 灯条
- 路灯
- 隧道照明

	Narrow Beam 窄光束	Medium Beam 中光束	Wide Beam 阔光束	Others 其他 (对称/不对称光束)
XTE 	**LL01NI-ANE10L02** Degree : 20° DxH :19.4*14.9mm FWHM :10° 20° 30° 55° 	**LL01CR-AAF40L02-M2** Degree : 20° DxH :13.4x7.35mm FWHM : 25° 40° 60° 	**LL07CR-BFR60L06** Degree : 60° DxH : 35.8x6.3mm FWHM : 25° 40° 60° 	**LL14CR-AOC65150L02** Degree : 65°x150° DxWxH : 250x60x9.9mm Asymmetrical Beam
XPG2 	**LL01CR-AFC15L06-M2** Degree : 15° DxH : 19.4x11.43mm Full angle : 15° 25° 40° 60° 	**LL01CR-BDF40L06-M2** Degree : 40° DxH : 11.8x6.45mm Full angle : 25° 40° 	**LL01CR-DF100L06-M2** Degree : 100° DxH : 13.5x7.5mm Full angle : 25° 40° 60° 80° 100° 30x65° 	**LL01CR-BAJ85135L02** Degree : 85°x135° DxWxH : 18x12.5x6.1mm Asymmetrical Beam
XML2	**LL01ZZ-AHA05L02** Degree : 5° DxH : 50x25.4mm 	**LL01CR-WI25L02-M2** Degree : 25° DxH : 32.8x18.1mm FWHM : 15° 25° 40° 	**LL01CR-ABG38L02** Degree : 38° DxH : 34x15.7mm FWHM : 24° 38° 55° 	**LL01CR-XW70140L02** Degree : 70°x140° DxH : 32x17.6x9.8mm Asymmetrical Beam 
MKR	**LL01CR-ADP15L06** Degree : 15° DxH : 78.5x35.2mm FWHM : 15° 24° 38° 	**LL01LU-DG40L06-M2** Degree : 40° DxH : 32.8x18mm Full angle : 20° 30° 40° 50° 60° 	**LL01CR-AFL70L02** Degree : 70° DxH : 22.2x10.4mm FWHM : 35° 50° 70° 	**LL01LU-AGV80150L02** Degree : 80°x180° DxWxH : 32x18.5x9.5mm Asymmetrical Beam 
CXA15xx	**LL01CT-AZN15L02-P** Degree : 15° DxH : 88.5x15mm FWHM :15° 24° 38° 	**LL01BR-TYR34R34-P** Degree : 34° DxH : 45x19.4mm FWHM : 24° 34° 50° 	**LL01SP-ATH38R49** Degree : 38° DxH : 75x40mm FWHM :15° 24° 38° 	**LL01CR-AYG24R49** Degree : 24° DxH : 75x45mm FWHM :15° 24° 38°
CXA25xx	**LL01ED-ASA12L06-P** Degree : 12° DxH : 90.6x22mm FWHM :12° 24° 38° 	**LL01CIOT33R2-P** Degree : 33° DxH : 50x30mm FWHM :20° 33° 45° 	**LL01SP-ASO55R49** Degree : 55° DxH : 90x50mm FWHM : 15° 24° 38° 55° 	**LL01CR-AYM24R35-P** Degree : 24° DxH : 90x50mm FWHM : 15° 24° 38°

PS1 ** XPC/XPE/XPG beam pattern is compatible but the beam angle is different. The beam angle is tested base on XPE.
** IES file, datasheets are available by request.

Customisation process and time

- To define the light source (LED Type)
- To define the beam angle (full angle view)
- To define the mechincal design
- The optical simulation report will be available in 2 weeks after details confirmed
- T1 sample will be available within 30 days after our client confirms our provided simulation report
- Total developing period is around 30 to 45 days, depending on the situation

个别开发项目流程及需时

- 定义LED厂牌以及型号
- 定义角度(90%光强度全角或是50%光强度半角)
- 定义机构设计
- 在客户模具定金50%确认後两周内提供光学模拟报告
- 第一次试模样品在光学模拟报告确认内30天可提供
- 总开发时间为30到45天,但可依照客户的需求来作调整

Lead time

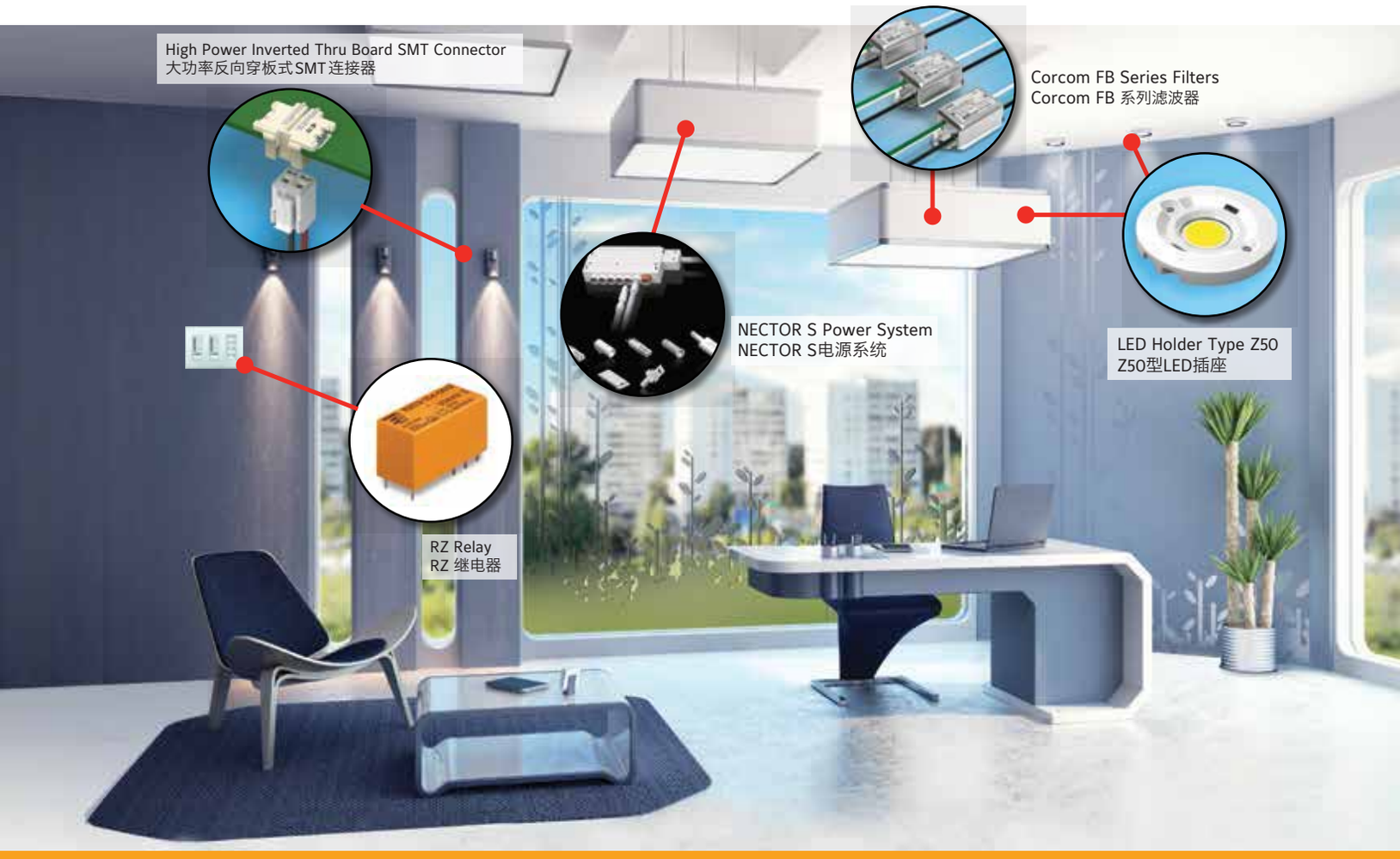
- Normally our lead time is three weeks

需时

- 交货期一般需时三周

* For any inquiry, please contact Arrow, or email to lighting@arrowasia.com 如欲查询产品资料,请联系艾睿电子,或联络 lighting@arrowasia.com

TE Connectivity Solutions for Lighting Applications
TE Connectivity 的照明应用解决方案



TE Connectivity is at the core of LED Lighting, providing electrical, thermal, and optical connectivity, protection and control products, all designed to enable your energy efficient LED lighting solutions.

TE Connectivity处于LED照明的核心，提供电气、热、和光学连接、保护和控制产品，所有均设计用于实现节能LED照明解决方案。

Authorized Distributor

NECTOR, Corcom, TE Connectivity and TE connectivity (logo) are trademarks.

Authorized Distributor

www.te.com

TE Connectivity (TE) is a global company which designs and manufactures over 500,000 products that connect and protect the flow of power and data. Its extensive catalogue includes innovative solid state lighting interconnects for the emerging LED lighting market. TE is at the forefront in the development of next generation lighting solutions that accelerate lighting manufacturers' transition from traditional light sources to new LED lighting fixtures.

TE Connectivity (TE) 是一家全球性企业，设计并制造了超过 500,000 种产品，产品是用于连接和保护电源及数据流。公司广泛的产品目录包括了创新的固态照明互连产品，用于新兴的 LED 照明市场。TE 站于下一代照明解决方案开发的第一线，加快了照明制造商从传统光源转向新型的 LED 照明灯具。

The Inverted Card Edge and Inverted Poke-In Platform
反向 Card Edge 和反向 Poke-In 平台

Product Flyer / 产品单页
1-1773721-1

Description
The Inverted Card Edge and Inverted Poke-In Platform are the new inverted thru-board (ITB) connectors that provide a direct power connection between driver boards located on the underside of LED array boards found in most LED bulb designs. These connectors provide a minimum of at least 3.0mm creep and clearance distance from the connector contacts to any dead metal features within the lighting system design. The Inverted Poke-In connector provides an additional 1.0mm depth to accommodate wire insulation guide barrels on the bottom of the connector.

描述
反向 Card Edge 和反向 Poke-In 平台是新的穿板连接器，适用于在大多数 LED 灯设计中，对位于 LED 阵列板及底侧的驱动板之间提供电源连接。这些TE连接器在照明系统设计中提供了从连接器触点到任何呆金属区的最小3.0mm爬电和间隙距离。反向 Poke-In 连接器提供附加的1.0mm深度，以便适合连接器底部的电线绝缘导筒。

Key Features
- Save time and cost by eliminating secondary SMT assembly processes by processing the ITB connectors at the same time as all other components on the printed circuit board
- Minimize LED light obstruction and shadowing with low profile connector design
- Provide increased stability with surface mount hold downs during driver board mating, un-mating and poke-in mating
- Improve speed and reduce cost of assembly with a connector design that allows for vacuum pick and place and the versatility of either tape and reel or loose piece packaging
- Meet specific design requirements with the Inverted Poke-In Connector's ability to accommodate 18-22AWG and 24-26AWG wire
- Provide a touch safe design once soldered to the printed circuit board with an optional cap available for both the Inverted Poke-In and the Inverted Card Edge Connectors

特性
- 在印刷电路板上同时处理 ITB 连接器和所有其它元件，通过省去二次 SMT 装配过程，节省时间和成本
- 使用紧凑型连接器设计，最大限度地减少 LED 灯阻隔和阴影
- 在驱动板插接、解插接和 Poke-In 插接的过程中使用表面安装压制，提供更高的稳定性
- 使用允许真空拾放和卷带或散件包装的多样的连接器设计，提高装配速度并降低成本
- 使用反向 Poke-In 连接器功能，满足特定的设计需求，适合 18-22AWG 和 24-26AWG 电线
- 提供触摸安全设计，使用可选盖焊接到印刷电路板上，同时用于反向 Poke-In 和反向 CardEdge 连接器

Applications
- Retrofit LED bulbs
- Track Lighting
- Spot Lights
- Down Lights

应用
- 翻新LED灯
- 轨道照明
- 聚光灯
- 射灯

LED Holders
LED 插座

Product Flyer / 产品单页
8-1773700-9

Description
TE partners with the leading LED and optics manufacturers in the industry to bring you connectivity solutions for your specific choice of LED array. TE offers a broad range of holder solutions for over 12 major LED manufacturer's products. TE LED holders form the core of the fixture ecosystem by integrating LED electrical, mechanical, thermal, and optical interconnectivity to accelerate time to market, minimize applied costs, facilitate easy integration, and improve assembly efficiency.

描述
TE与业界领先的LED和光学制造商合作，为特定LED阵列选择提供连接解决方案。TE为超过12家主要LED制造商之产品提供了广泛的底座解决方案。TE LED 底座通过集成LED电气、机械、热和光学互连，构成了灯具生态系统的核心，加速了上市时间、最小化应用成本、并帮助易于集成及提升组装效率。

Key Features
- Z50 series holders enable construction of Zhaga compliant modules
- Integrated poke-in wire termination
- Snap-in LED retention on some versions
- Alignment features simplify installation
- Easy attachment of secondary optics
- High-reflectivity polymeric housing materials
- Wide operating temperatures

特性
- Z50 系列插座实现了 Zhaga 兼容模块结构
- 已集成的刺入式 (poke-in) 线端连接
- 一些型款带有卡入式 (Snap-in) LED固定
- 简化了安装特性
- 易于附加的二次光学组件
- 高反射率聚合物外壳材料
- 宽阔的工作温度范围

Applications
- Spot Lights
- Track Lights
- Recessed Downlights
- High Bay Lights
- Retrofit Lamps

应用
- 射灯
- 轨道灯
- 嵌壁式射灯
- 高顶棚灯
- 改型灯

SlimSeal Solid State Lighting (SSL) Connectors
SlimSeal 固态照明 (Solid State Lighting，SSL) 连接器

Product Flyer / 产品单页
4-1773455-9

Description
TE's SlimSeal SSL Connectors are developed for indoor/outdoor lighting applications, and are well suited for any application where low power (5 A, 300 V maximum), sealing (IP67) and UV resistant (UL F1) connections are required.

描述
TE 的 SlimSeal 固态照明连接器专为室内 / 室外照明应用而开发，非常适合于要求低功率 (最大5 A，300 V)、密封 (IP67) 和抗紫外线 (UV resistant) (UL F1) 连接的任何应用。

Key Features
- Low profile, protected latch
- Polarized housing
- Positive latching
- Shadow minimizing rounded corners
- UV resistant material
- Optional grounding pin

特性
- 低侧高，带保护锁扣
- 定位外壳
- 正向锁扣
- 阴影最小化圆角
- 抗紫外线 (UV) 材料
- 可选接地引脚

Applications
- Office
- Residential
- Architectural lighting fixtures
- Commercial & residential refrigeration lighting
- Indoor & outdoor use

应用
- 办公室
- 住宅
- 建筑照明灯具
- 商用和住宅制冷照明
- 室内和室外使用

SSL IDC Connectors
固态照明 IDC 连接器

Product Flyer / 产品单页
5-1773455-1

Description
The IDC SSL connector series are insulation displacement (IDC) SMT and thru-hole wire-to-board connectors designed for quick, tool-less termination of discrete wires onto LED PCBs. These connectors use TE's proven insulation displacement technology to provide a robust, stable electrical and mechanical power connection to single or multiple PCBs in solid state lighting and nonlighting.

描述
IDC固态照明连接器系列是绝缘位移 (insulation displacement，IDC) SMT和通孔 (thru-hole) 线对板 (wire-to-board) 连接器，设计用于快速、免工具端接散线到LED印刷电路板。这些连接器使用TE已证明的绝缘位移技术来给固态照明和非照明中的单个或多个印刷电路板提供牢固、稳定的电气和机械电源连接。

Key Features
- Available in 1, 2, 3 and 4 positions
- SMT and thru-hole
- Closed end and feed thru
- 18-24 AWG stranded and solid wire
- Dual IDC slots
- Wire placement "viewing" window
- Wire gauge colour coded

特性
- 可提供 1、2、3 和4孔位
- SMT和通孔
- 闭合型和直通型 (feed thru)
- 18-24 AWG多股线和实芯线
- 双IDC插槽
- 导线放置 "观察" 窗
- 线规色标

Applications
- LED lighting controls LED
- General illumination LED fixtures
- Connecting strings of pcb LED light modules
- Non-lighting wire-to-board applications

应用
- LED 照明控制
- 一般照明 LED 灯具
- 印刷电路板 LED 照明模块内的灯串互连
- 非照明线对板应用

Hermaphroditic Blade and Receptacle Connectors
无极性刀片和插座连接器

Product Flyer / 产品单页
6-1773454-3

Description
The hermaphroditic and minihermaphroditic blade and receptacle in-line connectors from TE designed to make connecting of PCBs for LED lighting applications that include lighting controls and LED light modules. The low-profile surface-mount connector, available in 2, 4, and 6 positions, uses a hermaphroditic blade and receptacle design to allow LED PCBs strips to be joined with more flexibility than with traditional post-and-receptacle headers.

描述
TE 的无极性和小型无极性刀片和插座内嵌式连接器设计用于为LED照明应用提供印刷电路板连接，这些应用包括照明控制和LED发光模块。低侧高表面安装连接器，可提供2、4 和 6孔位，使用无极性刀片和插座设计，相比传统的 post-and-receptacle 接头，允许更灵活地结合LED印刷电路板灯串。

Key Features
- Connector mates to itself
- Single part to be stocked and placed onto pcb per position
- Connector mates and unmates horizontally and vertically — 3 axis mating
- Connector can be articulated from 90 °C to 180 °C
- Low profile flat surface is compatible with SMT and reflow processing

特性
- 连接器可与自身插配
- 单部件可按位置存放在印刷电路板上
- 连接器可水平和垂直插配和拔出 — 3 轴插配
- 连接器可以从90 °C到180 °C进行铰接
- 经凑结构，扁平表面适合SMT和回流焊接工艺

Applications
- LED lighting modules
- Incandescent lighting strips
- Channel lettering

应用
- LED 照明模块
- 白炽灯照明
- 立体发光字

SMT and Thru-Hole Poke-In Wire Lighting Connectors
SMT 和通孔 (Thru-Hole) 刺入式 (Poke-In) 导线照明连接器

Product Flyer / 产品单页
1773451-5

Description
The thru-hole version of TE's popular SMT poke-in connector for the LED lighting market. The new thru-hole version joins the existing surface-mount connector to provide a low-profile solution suited for use in PCB-based LED strings, lighting controls, and other non-lighting applications that can benefit from an easy poke-in wire termination to a PCB.

描述
受欢迎的 TE 的 SMT 刺入式 (poke-in) 连接器的通孔 (thru-hole) 型款可用于LED照明市场。新通孔型款加到现有的表面安装连接器中，可提供紧凑型解决方案，适用于基于印刷电路板的 LED 灯串、照明控制、和其它非照明应用，并受益于易于刺入的端接器连接到印刷电路板上。

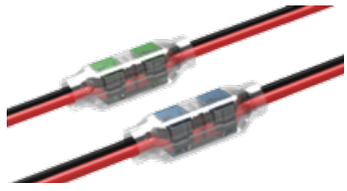
Key Features
- Available in 1 and 2 positions
- Standard and Low Insertion Force connectors available
- Accepts 18, 20 and 22 AWG solid wire; 18 and 20 AWG pre-bond stranded wire; 18 AWG stranded wire
- Gel-filled versions available for indoor moisture and outdoor application
- Cost effective alternative to hand soldering wires to PCB

特性
- 可提供1和2孔位
- 提供标准和低插入力连接器
- 接受18，20和22 AWG实芯线；18和20 AWG预键合多股线；18 AWG多股线
- 填胶(Gel-filled)型款，可用于室内潮湿和室外应用
- 具有成本效益地替代手工焊接导线到印刷电路板上

Applications
- LED Lighting Controls
- General illumination LED fixtures
- Interconnecting strings of printed circuit LED light modules
- Various non-lighting applications that require attaching flying leads to PCBs

应用
- LED照明控制
- 一般照明LED灯具
- 印刷电路LED发光模块灯串互连
- 需要附加跨线到印刷电路板上的各种非照明应用

CoolSplice Connectors
CoolSplice 连接器



Product Flyer / 产品单页
8-1773459-0

Description
TE CoolSplice connectors are designed to connect a pair of discrete wires, or a twin cord cable in line to a pair of discrete wires or twin cord cables. The insulation displacement, free hanging connectors accepts either 18 AWG or 20–22 AWG stranded or solid wire in unsealed and sealed, colour coded configurations.

描述
TE CoolSplice 连接器设计用于连接一对离散导线、或双芯线缆对接一对离散导线或双芯线缆。绝缘位移、自由悬挂设计的连接器可接受采用未密封或密封、色标配置的18 AWG 或 20–22 AWG多股线或实芯线。

Key Features
- Simple push button termination
- Developed with insulation displacement technology
- Terminates either 18 AWG [0.82 mm2] or 20-22 AWG [0.52 mm2 – 0.33 mm2] stranded or solid wire
- Left/right side independent terminations
- Available in unsealed and sealed versions
- IP65 and IP67 rating
- Visually controlled termination

特性
- 简单按钮端接
- 采用绝缘位移技术开发
- 可端接18 AWG [0.82 平方毫米]或 20 – 22 AWG [0.52 平方毫米 – 0.33 平方毫米]多股线或实芯线
- 左/右独立端接
- 提供未密封和密封型款
- IP65 和 IP67 等级
- 可视受控端接

Applications
- Outdoor architectural lighting
- Commercial display cabinets lighting
- Commercial refrigeration lighting
- Residential and office furniture lighting
- Security & alarm systems

应用
- 室外建筑照明
- 商用展示橱柜照明
- 商用制冷照明
- 住宅和办公家具照明
- 安全和报警系统

LED COB Array Holders
LED COB 灯座

Description

Molex produces a range of solderless solutions for mounting COB LED arrays. These high-temperature array holders make it easy to integrate LEDs into lighting applicaitons without the need for special tools.

描述

Molex公司生产一系列用于安装COB LED灯座的免焊解决方案。这些高温灯座可以很容易地使用的LED照明，无需特殊工具。

Product Features

- Solderless connection
- Highly reliable wire trap interconnect
- High reflectivity, high-temperature housing materials
- Space saving designs
- Stable electrical and thermal interface
- UL496 OLFB Lamp holder specification

产品特性

- 无焊连接
- 高度可靠的互连导线
- 高反射率的白色PBT聚酯
- 节省空间的设计
- 稳定的电气和热界面
- UL496 OLFB

Target Application

- Spot Light Module (SLM)
- Down Light Module (DLM)
- Can lighting/light pucks
- Troffer
- High-Bay fixtures
- Parking lot/street light

应用目标

- 射灯照明模块 (SLM)
- 筒灯照明模块 (DLM)
- 球泡灯
- Troffer
- 工矿灯夹具
- 停车场/路灯

Product Features 产品特性

Molex PN >>>	180555-0001	180560-0002	180720-0002	180810-0001
COB Power 功率	11W	15 to 24W	50 to 86W	50 to 86W
Input Voltage 输入电压	9.3 to 37V DC typ	18.5 to 37V DC typ	36 to 37V DC typ	36 to 37V DC typ
Current 输出电流	3.0A*	3.0A*	3.0A*	3.0A*
Rated Voltage 输出电压	120V DC	120V DC	120V DC	120V DC
Efficiency 效率	See Cree	See Cree	See Cree	See Cree
Dimming 调光	Cree CXA13+	Cree CXA15+	Cree CXA25+	Cree CXA25+
Mounting 安装	M2.5 Screw; mounting holes on 20mm centers	M2.5 Screw; mounting holes on 28mm centers	M3 Screw; mounting holes on 37mm centers	M3 Screw; mounting holes on 35mm centers
Other Features 其他	LED pre-hold; White PBT Housing	LED pre-hold; White PBT Housing	LED pre-hold; White PBT Housing	LED pre-hold; White PBT Housin
Certification 认证	UL FILE 345583	UL FILE 345583	UL FILE 345583	UL FILE 345583
Dimension 尺寸	25mm round; 3.15mm height, 20AWG wire	26.50 x 33.00 x 4.50mm	30.50 x 44.00 x 4.50mm	50mm round; 6.65mm height; Zhaga-style

* Dependent upon wire gauge and duty cycle: see Product Specification. 基于线规和占空比：请参看产品特性。
+ Cree and XLamp are registered trademarks of Cree, Inc. Cree 和 XLamp 是Cree 公司的注册商标。

TRIAC Dimmable AC/DC LED Driver with Active PFC
带有 PFC 结构的 TRIAC 可调 AC/DC LED 驱动芯片

Part Number 型号

IS31LT3935-DLS2-TR

Description

The Flicker-Free™ IS31LT3935 with AccuDim™ technology is a single stage current-mode LED driver optimized for high power factor and compatibility with all TRIAC dimmers. The PFC architecture enables excellent power factor over a wide range of operating line and load conditions. The flicker-free dimming technology mimics the characteristics of an incandescent light bulb. It presents a dynamic impedance to the dimmer and integrates an active bleed circuit for true dimming performance across all dimmers.

描述

使用无闪烁专利技术Flicker-Free™及AccuDim™IS31LT3935是一款单级电流模式的高功率因数且兼容所有TRIAC调光器的LED驱动芯片。该芯片的PFC结构可在宽泛的工作线性和负载条件下实现优异的功率因数。无闪烁调光技术可模仿白炽灯的特性。IS31LT3935使用一个可变电阻器调光，并针对所有调光器的实际调光性能集成了可变漏电路。

Product Features

- Smooth 0-100% Flicker-Free Dimming Range
- Compatibility with all TRIAC Dimmers (Digital, Leading and Trailing-edge)
- Near-unity PFC without External PFC Circuity
- Spread-Spectrum Switching for Reduced EMI
- Low 500uA Quiescent Current
- Soft Start, Under-voltage and Lockout Protection

产品特性

- 缓的0%~100%无闪烁调光范围
- 兼容所有TRIAC调光器
- 无需外部电路的高一致性PFC
- 使用扩展频谱开关减少EMI
- 超低500uA静态电流
- 软启动、欠压和关断保护

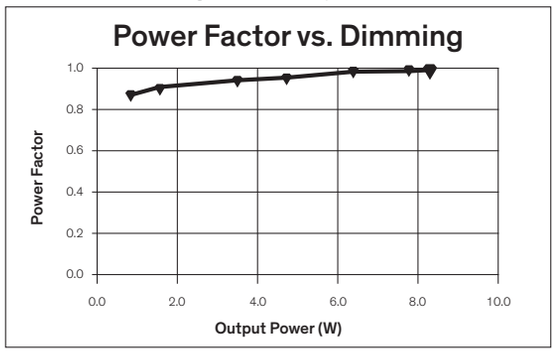
Target Application

- Dimmable Retrofit LED Bulb
- Dimmable PAR Lamps Up to 30W
- Industrial and Commerical Lighting
- Offline LED Driver Modules
- Smart Lighting

应用目标

- 多样的LED球泡灯
- 高达30W的可调PAR灯
- 工业、商业照明
- 离线的LED驱动模块

Power Factor vs. Dimming (28V/0.3A Output)



Note: Lab data taken using same dimmer and LEDs

Product Features 产品特性

	IS31LT3935	IS31LT3932	IS31LT3938	IS31LT3948
Power 功率	8W to 20W	8W to 40W	8W to 25W	3W to 20W
Input Voltage 输入电压	110/220VAC	85 to 265VAC	10 to 450VDC or 85 to 265VAC	5 to 100VDC
Output Current 输出电流	Limited by 20W output power	Limited by 40W output power	Limited by 25W output power	350mA
Output Voltage 输出电压	Adjustable	Adjustable	Adjustable	100VDC
Efficiency 效率	up to 87%	up to 85%	up to 95%	up to 90%
Dimming 调光	TRIAC	N/A	3-level switch dimming	PWM dimming
Package 封装	DFN-10	SOP-8	SOP-8	SOP-8
Other Features 其他	Flicker-Free™ AccumDim™	Low THD; Active PFC	Switch dimming	DC/DC boost converter
Topology 佈局	Buck, Buck Boost, Flyback	Buck, Buck Boost, Flyback	Buck, Buck Boost, Flyback	Boost

Dimmable DC LED Drivers : Buck and Buck/Boost
可调光 DC LED 驱动模块：降压与升/降压型

Part Number 型号

RCD- and RBD-series from 1 to 70 W
1至70W的RCD及RBD系列

Description

The RCD and RBD series offer a variety of DC input LED driver modules with a constant current output from 300 mA up to 1.2 Amps. With a buck topology in RCD series and buck-boost topology in the RBD series, these modules have comprehensive specifications, such as: high efficiency (up to 96%), wide input voltage range, very low output dropout voltage, 2 independent dimming options (PWM and 1-10 analog), MTBF up to 600,000 hours, and 3 packages (through hole, wired, and SMD).

描述

RECOM RCD 系列和 RBD 系列产品是 DC 输入可调光 LED 驱动模块。这些驱动模块的规格及性能全面：电流输出从 300mA~1.2A 的各种常用规格，高效率(高达96%)，宽范围的输入电压，极低的压差，2个独立的调光选项(PWM和1-10V模拟调光)，长达60万小时的平均设计寿命，以及三种可选的封装(通孔插入式封装，引线封装和表面贴装)。

Product Features

- All-in-one, ready to use (no need for external components)
- High efficiency (up to 96%)
- PWM/Digital and analog dimming
- Buck (RCD) & Buck-Boost (RBD) topology
- Short circuit protected
- Custom designs available

产品特性

- 一体化！易于使用 (无需外部元器件)
- 高效率 (高达96%)
- PWM/数字及模拟调光
- 降压 (RCD) 或升/降压 (RBD)
- 短路保护
- 可以定制

Target Application

- Architectural lighting
- Outdoor lighting
- Underwater and marine applications
- Backlight LED
- Solar Powered lighting
- Fluorescent replacement

应用目标

- 建筑照明
- 户外照明
- 水下应用和航海应用
- 背光 LED
- 太阳能照明
- 替代荧光灯

Product Features 产品特性

Part No. 型号	RCD-24-x.xx RCD-24-x.xx/W	RCD-24-x.xx/PL/A RCD-24-x.xx/PL/B	RCD-24-x.xx/Vref RCD-24-x.xx/W/Vref	RCD-48-x.xx RCD-48-x.xx/W	RBD-12-x.xx RBD-12-x.xx/W
Power 功率	Up to 40W	Up to 35W	Up to 25W	Up to 70W	Up to 20W
Input Voltage 输入电压	4.5 - 36 VDC	4.5 - 36 VDC	4.5 - 36 VDC	9 - 60 VDC	8 - 36 VDC
Output Current 输出电流	0.30, 0.35, 0.50, 0.60, 0.70, 1.00, 1.20A	0.30, 0.35, 0.50, 0.60, 0.70, 1.00A	0.30, 0.35, 0.50, 0.60, 0.70A	0.35, 0.50, 0.70, 1.00, 1.20A	0.30, 0.50A
Output Voltage 输出电压	2 - 35 V	2 - 35 V	2 - 35 V	2 - 56 V	2 - 40 VDC
Efficiency 效率	96% max	96% max	96% max	96% (typ.)	92% (typ.)
Dimming 调光	PWM & Analog	PWM & Analog	Analog (Rheostat) with External Potentiometer	PWM & Analog	PWM & Analog
Mounting 安装	Pins or Wired	SMD Pinless	Pins or Wired	Pins or Wired	Pins or Wired
Other Features 其他	Pins version - IP60 Wired version - IP67	Low profile, Built in Class A/B EMC Filter	Pins version - IP60 Wired version - IP67	Metal or Plastic Case	Wired version - IP67 Buck Boost Topology
Certification 认证	EN/UL-60950-1 EN-50121-3-2 Railways Certified	EN-60950-1 EN-50121-3-2 Railways Certified	EN/UL-60950-1 EN-50121-3-2 Railways Certified	EN/UL-60950-1 EN-50121-3-2 Railways Certified	EN/UL-60950-1
Dimension 尺寸	22.10 x 12.55 x 8.5 mm	31 x 11.4 x 6.6 mm	22.10 x 12.55 x 8.5 mm	Plastic: 32.6 x 16.65 x 11.1 mm Metal: 32.6 x 16.0 x 11.2 mm	32.6 x 16.65 x 11.1 mm
Warranty Period 质保期	5-year warranty				

Non-dimmable AC LED Drivers
AC 输入 LED 驱动模块 : 不可调光

Part Number 型号

RACD series - from 3, 6, 7, 12, 20, 25, 30, 100 and 150W
RACD系列3、6、7、12、20、25、30、100以及150W

Description

A wide range of AC input LED drivers, the RACD series; RECOM is offering a low cost solution for the low power Solid State Lighting. This family includes modules of 3W, 6W, 7W, 12W, 20W, 25W, 30W,100W and 150W in compact packages to fit the different needs of each lighting application. All modules are isolated and fully protected for safety based on UL8750 and EN61347 standards. Additional features like power factor correction, dimming controls can be found in our extensive portfolio. Building an LED lamp has never been easier!

描述

新型低功率 AC 输入 LED 驱动器家族产品 - RACD 系列 RECOM 将为低功率固态照明提供低成本解决方案。此系列驱动器包括采用微型封装的3W、6W、7W、12W、20W、25W、30W、100W和150W模块，可满足各种照明应用的不同需求。所有模块都符合 UL 8750 和 EN61347 安全标准的隔离和全面保护要求。我们的扩展产品组合提供功率因数校正和调光控制等附加功能。实现 LED 灯从此变得前所未有地简单！

Product Features 产品特性

- Universal AC input 通用AC输入
- Power factor corrected 功率因数校正
- 3kVAC isolation, fused input and protected output
  3 kVAC隔离，具有输入端保险丝和输出端保护
- Input and output screw terminals or polarised connectors
  输入和输出螺丝端子或DC外插接口
- 3 to 5 years warranty 3至5年的质量保证
- UL8750 listed, EN61347 and EN55015 certified
  符合UL 8750，EN 61347和EN 55015标准

Target Application 应用目标

- Cabinet lighting 橱柜照明
- Desk lamps 台灯
- Freezer lighting 冰箱照明
- Single fluorescent replacement 替代荧光灯
- Landscape lighting 景观照明
- Indoor lighting 室内照明

Product Features 产品特性

Part No. 型号	RACD03	RACD06	RACD07	RACD12	RACD20
Power 功率	3W	6W	7W	12W	20W
Constant Current/ Voltage 恒定电流/电压	CC/CV	CC/CV	CC	CC	CC
Input Voltage 输入电压	90-264 VAC	90-264 VAC	90-265 VAC	90-264 VAC	90-264 VAC
Output Current 输出电流	350, 500, 700 mA	350, 500, 700 mA	250, 350, 500, 700 mA	350, 500, 700 mA	350, 500, 700, 1050 mA
Output Voltage 输出电压	2.5-15, 2.5-11, 2.5-6 V	2.5-24, 2.5-14, 2.5-12 V	14-28, 10-20, 5-14.5, 3-10.5 V	3-36, 3-24, 3-17 V	6-56, 6-40, 6-29, 5-17 V
Efficiency 效率	up to 72%	up to 79%	up to 75%	78%	83%
Power Corrected Factor 功率因数校正	-	-	-	0.95	0.95
IP Rating IP 等级	IP66	IP20	IP67	IP20	IP20
Other Features 其他	Ultra compact size	Ultra compact size	Ultra compact size	Low profile, Easy connections	Low profile, Easy connections
Certification 认证	UL8750, EN61347, ENEC	UL8750, EN61347, ENEC	UL 8750, EN 61347, EN 61347-2-13	cUL/UL8750, EN61347, ENEC	UL8750, EN61347, ENEC
Dimension 尺寸	52.1 x 29.6 x 23.1 mm	68 x 35 x 21 mm	57 x 40.8 x 24 mm	123 x 45 x 18 mm	145 x 50 x 22 mm
Warranty Period 质保期	3-year warranty			5-year warranty	

Part No. 型号	RACD20/277	RACD25	RACD30	RACD100	RACD150
Power 功率	20W	25W	30W	100W	150W
Constant Current/ Voltage 恒定电流/电压	CC	CC	CC	CC/CV	CC/CV
Input Voltage 输入电压	90-305 VAC	90-295 VAC	90-264 VAC	90-305 VAC	90-305 VAC
Output Current 输出电流	350, 500, 700, 1050mA	500, 700, 1050, 1400mA	500, 700mA	2100, 2800, 4200, 8300mA	3200, 4200, 6300, 11000mA
Output Voltage 输出电压	28-57, 20-40, 14-29, 10.8-19V	42-52, 21-36, 16-24, 12-18V	10-56, 10-43V	34-48, 26-36, 14-24, 9-12V	34-48, 26-36, 14-24, 9-12V
Efficiency 效率	80%	Up to 85%	85%	Up to 91%	Up to 90%
Power Corrected Factor 功率因数校正	>0.90	>0.98	0.90	>0.98	>0.98
IP Rating IP 等级	IP66	IP67	IP20	IP67	IP67
Other Features 其他	Low profile, Easy connections	Ultra Slim Size	Low profile, Easy connections	High Efficiency, Metal Case	High Efficiency, Metal Case
Certification 认证	UL8750, EN61347, ENEC	UL 8750, EN 61347	UL 8750, EN 61347	UL 8750, EN 61347	UL 8750, EN 61347
Dimension 尺寸	Oblong : 80 x 74 x 26.5 mm	190 x 30.5 x 25 mm	160 x 50 x 22 mm	222 x 68 x 39 mm	222 x 68 x 39 mm
Warranty Period 质保期	5-year warranty				

Dimmable AC LED Drivers
AC 输入 LED 驱动模块：可调光

Part Number 型号

RACD series - With 1-10V & Triac Dimming
RACD系列 - 1至10V 以及可控硅调光

Description

The dimmable AC input LED drivers have 1-10V and TRIAC dimming features. Just like our non-dimmable drivers, all modules are fully protected for safety based on the UL 8750 and EN61347 standards.

描述

我们可调光的AC输入LED驱动器系列具有1-10V以及可控硅调光功能。模块都具有全面安全保护，满足UL8750以及EN61347标准。

Product Features

- Universal AC input
- Power factor corrected
- 3kVAC isolation, fused input and protected output
- 1-10V Analog dimming & TRIAC dimming
- 5 years warranty
- UL8750 listed, EN61347 and EN55015 certified

产品特性

- 通用AC输入
- 功率因数校正
- 3 kVAC 隔离，具有输入端保险丝和输出端保护
- 1-10V 模拟调光以及可控硅调光
- 5年的质量保证
- 符合UL 8750，EN 61347 和 EN 55015 标准

Target Application

- Cabinet lighting
- Desk lamps
- Freezer lighting
- Single fluorescent replacement
- Landscape lighting
- Indoor lighting

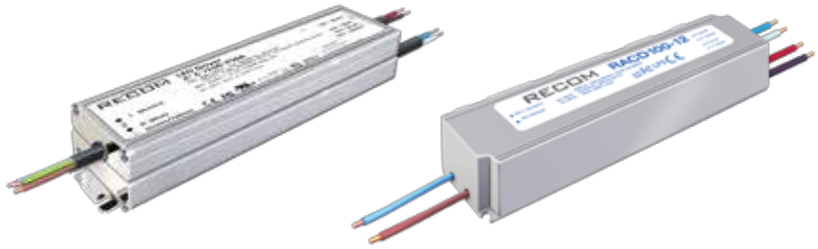
应用目标

- 橱柜照明
- 台灯
- 冰箱照明
- 替代荧光灯
- 景观照明
- 室内照明

Product Features 产品特性

Part No. 型号	RACD20-D RACD20-D (US)	RACT20 RACT20 (US)	RACD45-A	RACD100-A	RACD150-A
Power 功率	20W	20W	45W	100W	150W
Constant Current/ Voltage 恒定电流/电压	CC	CC	CC	CC	CC
Input Voltage 输入电压	200-264 VAC 90-130 VAC (US)	180-264 VAC 90-135 VAC (US)	90-305 VAC	90-305VAC	90-305 VAC
Output Current 输出电流	2x350 or 1x700mA	350, 500, 700, 1050mA	700, 1050, 1250, 1850mA	700, 1400mA	700, 1050, 1400mA
Output Voltage 输出电压	(2x) 3-34V	30-56, 21-39, 15-28, 12-18 V	40-57, 33-48, 24-36, 15-24 V	100-142, 50-71 V	60-210, 60-143, 60-107 V
Efficiency 效率	> 80%	up to 82%	up to 87%	91%	92%
Power Corrected Factor 功率因数校正	0.95	> 0.95	> 0.98	>0.98	>0.98
Dimming 调光	1-10V or Rheostat Dimmable	TRIAC dimming down to 0%	3 in 1 Dimming Control (DC / PWM / Resistance)	1-10V or PWM	1-10V or PWM
IP Rating IP 等级	IP20	IP20	IP67	IP67	IP67
Other Features 其他	Low profile, Easy connections	Easy connections	Short Circuit, Overload and Overtemperature Protected	Compact size, NXP Green Chip Certified	Compact size, NXP Green Chip Certified
Certification 认证	EN 61347 Compliant	EN 60950-1, EN 61347	EN 61347-1, EN 61347-2-13, UL8750	UL 8750, EN 61347	UL 8750 (Pending), EN 61347
Dimension 尺寸	155 x 50 x 21 mm	137.5 x 50.2 x 23 mm	174 x 45.1 x 32.5 mm	188 x 57 x 37 mm	226 x 68 x 39 mm
Warranty Period 质保期	5-year warranty				

AC LED Drivers Constant Voltage
AC 输入 LED 驱动模块：恒压



Part Number 型号

RACV-series and RACD-series 3 , 6, 30, 100 and 150 W
RACV系列和RACD系列3, 6, 30, 100 以及150W

Description

LEDs are usually driven by current drivers, but there are applications on the market which need constant voltage instead of constant current. Due to legal requirements c.v. LED drivers must meet specific parameters. PFC > 0.9 is already mandatory at power starting with 25W and EN61000-2-3 class C is required which is not typical for standard constant voltage power supplies. RECOM designed, beside specific constant current power supplies for dual use, also to use them to power the RCD-series where specific applications make a dual stage driver necessary. All modules are isolated and will meet the mentioned UL and EN standards, the dual use helps to reduce logistic costs.

描述

LED通常使用的是恒流驱动器，当然也有一些应用是要求使用恒压驱动。相关法规要求LED驱动器必须符合电源设计规范要求。如，25W以上的电源必须达到PFC > 0.9，而恒压驱动则要求必须满足EN6100-2-3 C级标准，等等。因此RECOM设计了恒流 / 恒压双模式的LED驱动器。RECOM所有LED驱动器均符合UL和EN标准并已取得认证证书。这种双模式驱动器应用方便且有利于客户节约成本。

Product Features

- Universal AC input
- Power factor corrected
- 3.75kVAC isolation, fused input and protected output
- 1-10V Analog dimming & TRIAC dimming
- 3 to 5 years warranty
- UL8750 listed, EN61347 and EN55015 certified

产品特性

- 通用AC输入
- 功率因数校正
- 3.75kVAC隔离，具有输入端保险丝和输出端保护
- 1-10V 模拟调光以及可控硅调光
- 3至5年的质量保证
- 符合UL 8750，EN 61347和EN 55015标准

Target Application

- Cabinet lighting
- Desk lamps
- Freezer lighting
- Single fluorescent replacement
- Landscape lighting
- Indoor lighting

应用目标

- 橱柜照明
- 台灯
- 冰箱照明
- 替代荧光灯
- 景观照明
- 室内照明

Product Features 产品特性

Part No. 型号	RACD03	RACD06	RACV30	RACD100	RACD150
Power 功率	3W	6W	30W	100W	150W
Constant Current/ Voltage 恒定电流/电压	CC/CV	CC/CV	CV	CC/CV	CC/CV
Input Voltage 输入电压	90-264 VAC	90-264 VAC	90-264 VAC	90-305 VAC	90-305 VAC
Output Current 输出电流	350, 500, 700mA	350, 500, 700mA	1250, 2500mA	2100, 2800, 4200, 8300mA	3200, 4200, 6300, 11000mA
Output Voltage 输出电压	2.5-15, 2.5-11, 2.5-6 V	2.5-24, 2.5-14, 2.5-12 V	24, 12 V	34-48, 26-36, 14-24, 9-12 V	34-48, 26-36, 14-24, 9-12 V
Efficiency 效率	up to 72%	up to 79%	Up to 84%	Up to 91%	Up to 90%
Power Corrected Factor 功率因数校正	-	-	> 0.92	> 0.98	> 0.98
IP Rating IP 等级	IP66	IP20	IP20	IP67	IP67
Other Features 其他	Ultra compact size	Ultra compact size	Short Circuit, Overload and Overtemperature Protected	High Efficiency, Metal Case	High Efficiency, Metal Case
Certification 认证	UL 8750, EN 61347, ENEC	UL 8750, EN 61347, ENEC	cUL 8750, EN 61347-2-13	UL 8750, EN 61347	UL 8750, EN 61347
Dimension 尺寸	52.1 x 29.6 x 23.1 mm	68 x 35 x 21 mm	160 x 50 x 22 mm	222 x 68 x 39 mm	222 x 68 x 39 mm
Warranty Period 质保期	3-year warranty		5-year warranty		

AC/DC LED Lighting Driver
AC/DC LED 照明驱动

Introduction

Shinry Technologies is the one of High-tech Enterprise with core business of energy-saving and new energy industry in Shenzhen China; Shinry Tech also is a National 863-Project Enterprise specialized in providing LED driver solution with features of high efficiency, high power density, intelligent and high reliability performance.

Shinry Tech founded in 2005, the green lighting power supply R&D center was established in 2006. We built up the team with more than 60 R&D engineers, consisting of six development dept.. Products have covered LED indoor and outdoor lighting driver, LED display driver, LED intelligent lighting control system, which are sold in global market.

As a National High-tech Enterprise, Shinry has built a long-term cooperation with Tsinghua University since 2006. Our team is composed of highly qualified engineers and executive staff with many years of experience. They also have leading R&D ability, creative capability and engineering and manufacturing abilities; Shinry has been awarded 52 independent patents including 20 national invention patents and 32 new utility model patents. Any inquiries on our products or custom design requirements are welcomed! We insist that Shinry would like to absorb capable people and to provide distinctive services; we commit ourselves to become worldwide leading power electronics company.

简介

深圳市欣锐特科技有限公司，是一家以节能减排、新能源产业为核心的国家级高新技术企业，专门为客户提供高效率、高功率密度、智能化、高可靠性的LED电源解决方案，也是国家863项目的主承接单位。

公司成立于2005年，在2006年就创立了绿色照明驱动电源研发中心，目前研发工程师有60多人，涉及6个开发小组，产品涵盖LED室内户外照明电源、LED显示屏电源、照明智能控制系统等，产品销售服务全球。

公司汇集国内外数十名专业精英，并与清华大学建立起长期合作关系，拥有业界领先的研发创新能力和工程制造能力，已获得20项国家发明专利，32项实用新型专利。公司秉承锐意进取、特色服务的理念，致力于打造全球领先的电力电子企业。

Description

External Power Supply for LED Lamps (Including dimmable and non-dimmable); Isolated Design & Low harmonic; Protection function: OVP, SCP.

描述

LED 外置恒流驱动电源(包括调光与非调光)，隔离型低谐波方案设计；保护功能：OVP、SCP。

Target Application

For Downlight, Corn light, Panel light, Mining lamp, Floodlights. Power: 9-52W

应用目标

适用于筒灯、玉米灯、面板灯、工矿灯、泛光灯等。功率：9-52W

Product Features 产品特性

Part No. 型号	LRC200(720)-42WGE-4D	LRC200(940)-42WGE-5D	LTC720(900)-58WSO	LTC540(720)-42WSK	LRC210(520)-42HTE(调光电源)
Input Voltage 输入电压	90~264Vac	90~264Vac	90~264Vac	90~264Vac	180~264Vac
Output Voltage 输出电压	A.24~32V B.32~42V C.42~52V	A.24~32V B.32~42V C.42~52V	24~58V	34~42V	34~42V
Output Current 输出电流	A.280~940mA B.200~720mA C.170~580mA	A.280~1250mA B.200~940mA C.170~760mA	720~900mA	540~720mA	210~520mA
Power Range 输出功率	9~30W	9~40W	14~52W	21~30W	9~22W
Efficiency 效率	86%	87%	90%	87%	84%
Power Factor 功率因数	0.96	0.97	0.95	0.92	0.9
Dimensions 尺寸	150*40*29mm	153*45*30mm	D70*46mm	D83*32mm	150*40*29mm
Certification 认证	TUV、PSE、CE certificated; UL、FCC、CCC qualified.	TUV、CE certificated; UL、FCC、PSE、CCC qualified.	CE, UL, PSE, TUV, SAA, CQC qualified.	CE, UL, PSE, TUV, SAA, CQC qualified.	CE, UL, PSE, TUV, SAA, CQC qualified.
Picture 图片					

AC/DC LED Lighting Driver
AC/DC LED 照明驱动

Description

Internal LED driver for T8 tube; Isolated / non-isolated high-efficiency design;
With 2 international invention patents;
Multi-protection functions: OVP, SCP, Soft start;
CE certificated; UL, FCC, TUV, ETL, PSE, CCC qualified.

Target Application

For T5, T8, T10 LED tube; Power: 6W-25W

描述

LED 日光灯内置恒流驱动电源系列，隔离 / 非隔离型高效方案设计，拥有2项国际发明专利；
多项保护功能：OVPL、SCPL、Soft start；
通过 CE，符合 UL、FCC、TUV、ETL、PSE、CCC 等多项认证。

应用目标

适用于T5、T8、T10日光灯管，功率范围 6W-25W

Product Features 产品特性 (Isolated 隔离)

Part No. 型号	LRC150(350)-42WGL	LRC120(300)-52WGL	LRC360(620)-42WGF	LRC300(480)-52WGF
Input Voltage 输入电压	90~264Vac	90~264Vac	90~264Vac	90~264Vac
Output Voltage 输出电压	32~42V	42~52V	32~42V	42~52V
Output Current 输出电流	150~350mA	120~300mA	360~620mA	300~480mA
Power Range 输出功率	6~15W	6~15W	15~25W	15~25W
Efficiency 效率	85%	85%	88%	88%
Power Factor 功率因数	0.95	0.95	0.95	0.95
Dimensions 尺寸	WGL：205*17.5*10.5mm		WGF：230*17*10.5mm	

Product Features 产品特性 (Non-Isolated 非隔离)

Part No. 型号	LRC100(240)-75WNB-7DE	LRC100(250)-85HNB-7DE	LRC100(250)-60WNB-7D	LRC100(250)-80WNB-7D
Input Voltage 输入电压	100~264Vac	180~264Vac	90~264Vac	100~264Vac
Output Voltage 输出电压	50~75V	50~85V	30~60V	30~80V
Output Current 输出电流	100~240mA	100~250mA	100~250mA	100~250mA
Power Range 输出功率	6~18W	6~21W	6~15W	6~20W
Efficiency 效率	90%	90%	91%	92%
Power Factor 功率因数	0.92	0.92	0.95	0.95
Dimensions 尺寸	159*16*11mm	136*17*10.5mm	105*16*10.5mm	

Description

External Power Supply for LED Lamps; Isolated Design & Low harmonic;
Protection function: OVP, SCP;
TUV certificated; UL, PSE, SAA, CQC qualified.

Target Application

For external LED tube; Indoor Panel Light, Ceiling Light, Downlight, Power: 6-60W

描述

LED 外置恒流驱动电源系列，隔离型低谐波方案设计；
保护功能：过压保护、短路保护；
通过 TUV，符合UL、PSE、SAA、CQC认证。

应用目标

适用于外置日光灯、面板灯、天花灯、筒灯等室内灯具。
功率范围：6-60W

Product Features 产品特性

Part No. 型号	LRC150(360)-42WGE	LRC360(600)-42WGE	LRC600(1070)-42WGE	LRC1070(1500)-42HGE
Input Voltage 输入电压	90~264Vac	90~264Vac	90~264Vac	180~264Vac
Output Voltage 输出电压	A.20~32V B.30~42V C.40~52V	A.20~32V B.30~42V C.40~52V	A.20~32V B.30~42V C.40~52V	A.20~32V B.30~42V C.40~52V
Output Current 输出电流	A.200~500V B.150~360V C.120~300V	A.500~780mA B.360~600mA C.300~480mA	A.780~1400mA B.600~1070mA C.480~860mA	A.1400~2000mA B.1070~1500mA C.860~1200mA
Power Range 输出功率	6~15W	15~25W	25~45W	45~60W
Efficiency 效率	85%	86%	87%	89%
Power Factor 功率因数	0.92	0.94	0.95	0.95
Dimensions 尺寸	102*39*25mm	127*39*30mm	157*41.5*35mm	157*41.5*35mm

AC/DC Intelligent LED Driver — Outdoor
AC/DC 智能 LED 驱动 — 室外照明

Part Number 型号

- HDP050
- HDP075
- HDP100
- HDP120
- HDP150
- HDP200
- HDC035
- HDC050
- HDC080

Description

The HDP and HDC series product is an isolated intelligent LED driver for outdoor LED lighting applications. It operates from a universal AC input voltage in the range of 90Vac to 305Vac. The unit provides 35W~200W of output power and adjustable output current. The built-in active PFC function makes it high PF and low THD. The protect functions include OVP, SCP and OTP. There are built-in 4 in 1 dimming function, 0~10Vdc, Timing, PWM and Resistance, which makes the unit suit for different dimming applications.

描述

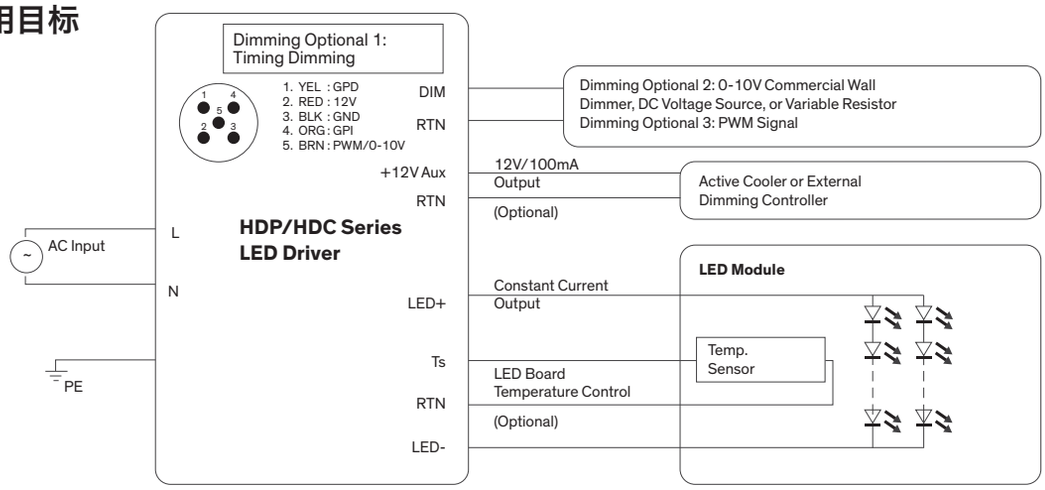
HDP和HDC系列产品是一款隔离型兼容多种调光功能 LED 智能驱动器，主要适用于户外LED照明的场合；该产品输入电压范围为90Vac~305Vac，覆盖35W~200W的输出功率，可调的输出电流；内置有源功率因数校正使该产品具有较高的功率因数和较低的总谐波失真；其保护功能包括开路保护、短路保护、过温保护。该产品支持多种调光功能：0~10V、PWM、电阻和定时，使其可以适用于各种调光应用的场合。

Product Features 产品特性

Part No. 型号	HDC035	HDP075	HDP100	HDP150	HDP200
Input Voltage 输入电压	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac
Power Factor 功率因数	0.98	0.98	0.98	0.98	0.98
Output Current 输出电流	350mA~2100mA	350mA~3500mA	350mA~3500mA	350mA~5000mA	530mA~5000mA
Power 功率	35W	75W	100W	150W	200W
Dimming 调光	0~10V、PWM、Timing、Resistance	0~10V、PWM、Timing、Resistance	0~10V、PWM、Timing、Resistance	0~10V、PWM、Timing、Resistance	0～10V、PWM、Timing、Resistance
Efficiency 效率	90%	91%	92%	93%	94%
EMI 电磁干扰	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB
Dimension 尺寸	100 x 70 x 34mm	147 x 70 x 34mm	171 x 70 x 34mm	202 x 70 x 34mm	202 x 73.5 x 37mm

Target Application 应用目标

- LED Street Lamp LED路灯
- LED Tunnel Lamp LED隧道灯



AC/DC 4 in 1 Dimmable LED Driver — Indoor
AC/DC 四合一可调光 LED驱动 — 室内照明

Part Number 型号

- DAP40-490U
- DAP40-675U
- DAP40-980U
- DAP40-1400U
- DAP40-1800U
- DAP25-400U
- DAP25-530U
- DAP25-810U
- DAP25-1050U

Description

The DAP series product is an isolated LED driver for LED lighting applications. It operates from a universal AC input voltage in the range of 90Vac to 305Vac. The unit provides 25W~40W of output power and adjustable output current. The built-in active PFC function makes it high PF and low THD. The protect functions include OVP, SCP and OTP. There are built-in 4 in 1 dimming function, 0~10Vdc, DIP-switch, resistance and Triac, which makes the unit suit for different dimming applications.

描述

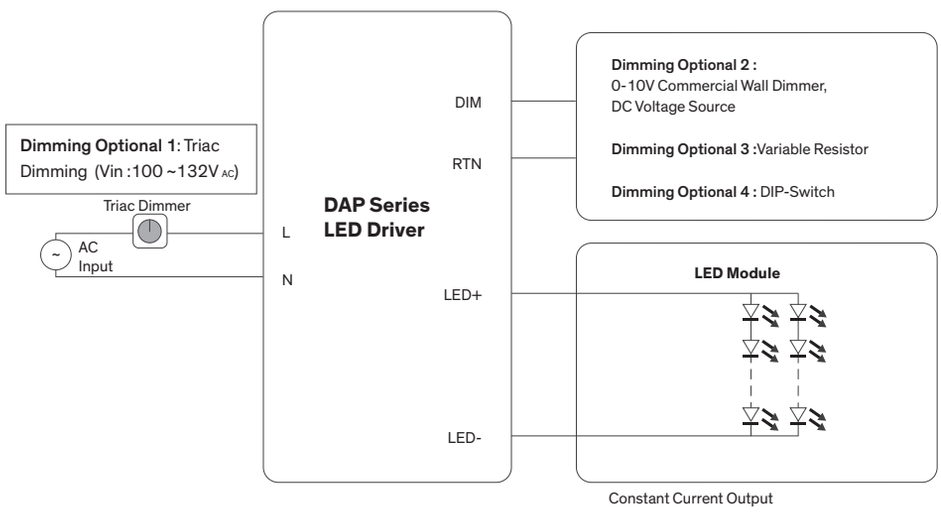
DAP系列产品是一款隔离型兼容多种调光功能的LED驱动器，主要适用于LED照明的场合；该产品输入电压范围为90Vac～305Vac，覆盖25W~40W的输出功率，可调的输出电流 ；内置有源功率因数校正使该产品具有较高的功率因数和较低的总谐波失真；其保护功能包括开路保护、短路保护、过温保护。该产品支持多种调光功能：0～10V、电阻、拨码开关和可控硅，使其可以适用于各种调光应用的场合。

Product Features 产品特性

Part No. 型号	DAP25-400U	DAP25-1050U	DAP40-490U	DAP40-980U	DAP40-1800U
Input Voltage 输入电压	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac
Output Current 输出电流	(400-n*15)mA, n=0……7	(1050-n*30)mA, n=0……7	(490-n*20)mA, n=0……7	(980-n*40)mA, n=0……7	(1800-n*50)mA, n=0……7
Output Voltage 输出电压	37-83Vdc	14-30Vdc	50-114Vdc	25-57Vdc	13-28Vdc
Power 功率	25W	25W	40W	40W	40W
Dimming 调光	0~10V, Resistance, DIP-Switch, TRIAC	0~10V, Resistance, DIP-Switch, TRIAC	0~10V、Resistance, DIP-Switch, TRIAC	0~10V, PWM, DIP-Switch, TRIAC	0~10V, Resistance, DIP-Switch, TRIAC
Efficiency 效率	89%	88%	91%	90%	88%
EMI 电磁干扰	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB	EN55015, FCC Part 15 ClassB
Dimension 尺寸	78 x 80 x 27mm	78 x 80 x 27mm	95 x 70 x 32mm	95 x 70 x 32mm	95 x 70 x 32mm

Target Application 应用目标

- LED Down Light
- LED Panel Light
- LED Ceiling Light
- LED Spot Light
- LED Wash Wall Light
- LED筒灯
- LED面板灯
- LED天花灯
- LED投光灯
- LED 洗墙灯



Five Years Out

Lighting Solutions

Arrow Lighting is committed to bringing new forms of illumination to life.

In fact, we're experts in the new way of lighting the world—using transformational, efficient and reliable solid-state lighting (SSL) technologies.

Our capabilities can be like the difference between night and day for your business, providing state-of-the-art technology and supporting you from the first moment of insight to distribution and reverse logistics.

There will be new standards, new fixtures, new design elements. But more, there will be new ideas and new breakthroughs to make manifest.

For Arrow, SSL lighting means progress. It means solving the challenges your business is facing, streamlining the creation of new lighting from conception to production, and benefiting your bottom line with green, clean, smart technology.

Wherever you are in the design process, we can help you access the world's leading SSL technology, select and source the best materials, design and engineer for speed to market, produce the modules or finished goods you need, and manage your supply chain.

Our engineers, designers and innovators are working to help make the world of Five Years Out brighter than ever before. Will you join us?

Retail, portable, signage, indoor, outdoor, transportation and virtually any other specialty application—we offer SSL solutions for every market.

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